

· CONCHOLOGIA ICONICA:

OR,

ILLUSTRATIONS

LIBHARY Q

OF THE

HELLS OF MOLLUSCOUS ANIMALS.

VOL. VIII.

CONTAINING MONOGRAPHS OF THE GENERA

PECTEN.
HINNITES.
MACTRA.

LUTRARIA.
AMPIIIDESMA.
MESODESMA.

DONAX. PATELLA. NASSA.

Β¥

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"Hail to thy face and odours, glorious sea!
The spirit of the universe in thee

Is visible; thou hast in thee the life,
 The eternal, graceful, and impostic life,
 Of nature: and the natural human hearts?
 Is therefore bound to thee with holy love."—Campbell

LONDON:

LOVELL REEVE, HENRIETTA STREET, COVENT GARDEN.

1855.

MONOGRAPH

OF THE GENUS

PECTEN.

'How sweet to muse upon the skill display'd (Infinite skill!) in all that He hath made, To trace in Nature's most minute design The signature and stamp of power divine."— Cowper



Pecten, Pl. I.

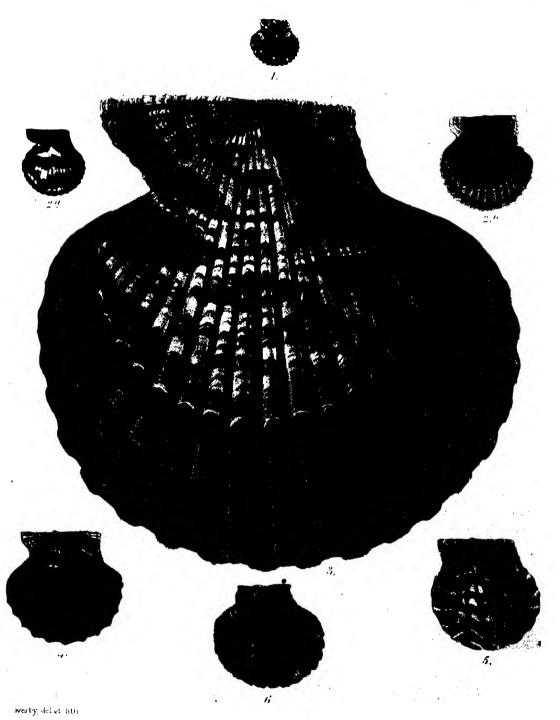


PLATE I.

Species 1. (Fig. 1 and 6, Mus. Cuming.)

Pecten in Equivalvis. Pect testá inequivalvi, subrotundatá, postice paululum expansá, undique confertim et minutissime concentrice striatá, auriculis inequalibus; valvá simistrá planulatá, umbones versus paululum elevatá, costis octodecim ad viginti elevatis subangulatis, interstitiis excavatis, radiatá, griseá, nigricante-cinereo profuse oblique strigatá, maculis perpaucis albis notatá; valvá dextrá valde convexá, ventricosá, costis octodecim sublatioribus radiatá, albicante, maculis pallide cinereofuscescentibus sparsim tinctá; lateribus saturate strigatis.

THE INEQUIVALVE PECTEN. Shell inequivalve, nearly round, a little expanded posteriorly, closely and very minutely concentrically striated throughout, ears uncqual; left valve flattened, a little raised towards the umboes, rayed with eighteen to twenty raised slightly angular ribs, interstices excavated, grey, profusely obliquely streaked with blackish-ash, and marked with a few white spots; right valve very convex, ventricose, rayed with eighteen rather broader ribs, whitish, sparingly stained with pale ash-brown spots; sides darkly streaked.

Sowerby, Thesaurus Conch. vol. i. p. 50. pl. 19. f. 193-5. Hab. Philippine Islands; Cuming.

The obliquely streaked ash marking and the few scattered opake-white spots are very characteristic in this species.

Species 2. (Fig. 2 a, Mus. Cuming.)

PECTEN SUGILLATUS. Pect. testá suborbiculari, æquivalvi, æquilaterali, auriculis inæqualibus; valvis convexis, costis duabus et viginti subangulatis paululum squamatis radiatis, interetitiis concentrice elevato-striatis; albidá, livido-olivaceo aurantioque marmoratá,

THE BRUISED PROTEN. Shell nearly orbicular, equivalve, equilateral, ears unequal; valves convex, rayed with two-and-twenty subangled slightly squamate ribs, with the interstices concentrically elevately striated; whitish, marbled with livid-olive and orange.

Hab. ---- ?

The under valve is similarly coloured to the upper, but in a lighter degree.

Species 3. (Mus. Cuming.)

PECTEN NOBILIS. Pect. testă æquivalvi, subgibbosă, radiatim costată, costis duabus et viginti, rotundatis, elevatiusculis, concentrice tenuiter crebre squamato-liratis, interstitiis latiusculis, longitudinaliter trisulcatis; carneo-albidă, roseo-rufo undique maculată et variegată; auriculis valde inæqualibus, radialim squamato-liratis.

THE NOBLE PECTEN. Shell equivalve, somewhat gibbous, radiately ribbed, ribs two-and-twenty, rounded, rather raised, concentrically finely closely squamately ridged, interstices rather broad, longitudinally three-grooved; flesh-white, spotted and variegated throughout with rose-red; ears very unequal, radiately squamately ridged.

Hab. Japan.

This fine species, newly received from Japan, differs in being of a rounder form than its nearest ally, and not squamate on the ribs, the sculpture consisting merely of very thin short scale-like ridges.

Species 4. (Mus. Cuming.)

Pecten Sowerby: Pect. testá subæquivalvi, orbiculari, depressiusculá, subæquilaterá, auriculis vix inæqualibus; valvá sinistrá concentricè creberrimè elevato-striatá, costis quatuordecim angustis subdistantibus radiatá, costis livido-nigricantibus, interstitiis fulvis, ambabus punctis cærulescentibus undique densè aspersis; valvá dextrá costis latis quatuordecim radiatá, albá.

SOWERBY'S PECTEN. Shell nearly equivalve, orbicular, rather depressed, nearly equilateral, ears but little unequal; left valve concentrically very closely elevately striated, rayed with fourteen rather distant narrow ribs, ribs livid-blackish, interstices fulvous, both densely sprinkled throughout with light blue dots; right valve rayed with fourteen broad ribs, white.

Pecten aspersus, Sowerby (not of Lamarck), Pro. Zool. Soc. 1835, p. 110.

Hab. Tumbez, Peru.

Readily distinguished by the characteristic sprinkling of light bluish dots upon the dark slate-colouring of the left valve, the right valve being colourless.

Species 5. (Mus. Cuming.)

Pecten latiauritus. Pect. testá subæquivalvi, obliquè subquadratá, inæquilaterali, tenui, pellucido-corneá, pallidè ferrugineo-fuscescente, maculis angulatis albis plus minus variegatá, concentricè sulcato-striatá, costis obtusè rotundatis subirregularibus ad duodecim obliquè radiatá.

The Broad-Eared Pecter. Shell nearly equivalve, obliquely subquadrate, inequilateral, thin, transparent-horny, pale rust-brown, more or less variegated with white angular spots, concentrically groove-striated, obliquely rayed with about twelve somewhat irregular obtusely rounded ribs.

CONRAD, Sowerby, Thesaurus Conch. vol. i. p. 57. Hab. California.

Of a peculiar thin horny substance, rayed in an oblique direction with about a dozen incompletely developed ribs, mottled with white upon a rust-tinged or bronze ground. Species 6. (Fig. 2 b, Mus. Cuming.)

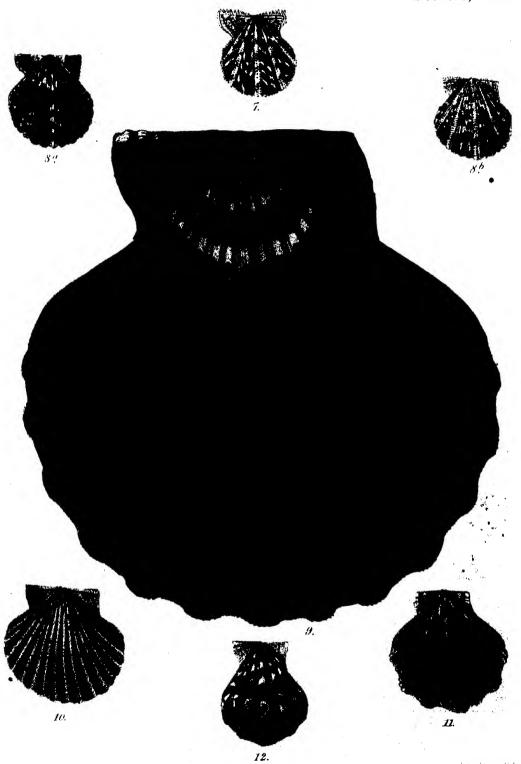
Pecten Leucofhaus. Pect. testá suborbiculari, æquivalvi, æquilaterali, auriculis subæqualibus; valvis convexis, costis octodecim subangulatis, striis elevatis ex interstitiis nitidè concentricè decussatis radiatis, costis valvæ dextræ latioribus, plus minus lævigatioribus; cinereo-griseá, immaculatá, intus aut albá aut fuscá.

The oney Pecten. Shell nearly orbicular, equivalve, equilateral, ears nearly equal; valves convex, rayed with eighteen sub-angled ribs, neatly concentrically decussated with raised strize out of the interstices, ribs of the right valve broader and more or less smoother; ash-grey, unspotted, brown or white within.

Hab.

Of an uniform grey-slate colour without, and more or less tinged with a light bronze-brown within.

Pecten, Pl.II.



Sowerby, del. et. lith

I. Mreachtimb

PLATE II.

Species 7. (Fig. 7 and 8. a, b, Mus. Cuming.)

PECTEN EXASPEBATUS. Pect. testá subæquivalvi, auriculis grandibus, conspicud scabrosis, sinistris supernè acutè squamatis; valvá sinistra convexá, costis octodecim profusè serrato-scabrosis radiatá, interstitiis scabrosis, fulvá, olivaceo maculatá, niveo-albo apersá, costis quinque albicantioribus, squamis centralibus majoribus; valvá dextrá estoplaniore, costis septemdecim, profusè serrato-squamatis, omnibus similibus, pallidiore, olivaceo niveoque aspersá, lateribus acutè squamatis.

THE SHARPENED PECTEN. Shell nearly equivalve, cars large, conspicuously scabrous, left ears sharply scaled along the tip; left valve convex, rayed with eighteen profusely serrately scabrous ribs, interstices scabrous, fulvous, spotted with olive and sprinkled with snowy white, five of the ribs whiter, with the central scales larger; right valve rather flatter, with seventeen profusely serrately scabrous ribs, all alike, paler, sprinkled with olive and snowy white, sides sharply scaled.

Sowerby, Thesaurus Conch. vol. i. p. 54. pl. 18. f. 183-186.

Ilab. Island of St. John, West Indies.

Mr. Sowerby has erred in quoting the Mediterranean as the habitat of this very characteristic species.

Species-9. (Mus. Cuming.)

Pecten Magnitious. Pect. testé subæquivalvi, æquilaterali, auriculis inæqualibus, radiatim liratá, liris auricularum anticarum paucioribus et majoribus; valvis costis tredecim ad quatuordecim, rotundatis, obsoleté nodosis, radiatis, costis interstitusque longitudinaliter sulcosis, sulcis transversim minutissimè arcuatim striatis; ewtus intense corallio-rubrá, intus albá, purpureomarginatá.

THE MAGNIFICENT PECTEN. Shell nearly equivalve, equilateral, ears unequal, radiately ridged, ridges of the front ears fewer and larger; valves rayed with thirteen to fourteen rounded, obsoletely nodose ridges, ribs and interstices longitudinally grooved, grooves transversely very minutely arcuately striated; deep coral-red without, white and purple-edged within.

SOWERBY, Pro. Zool. Soc. 1835, p. 109.

Hab. Isle of Plata, West Columbia (in coral sand at a depth of from six to seventeen fathoms); Cuming.

This fine species is not very remotely allied to *P. corallinoides*, although of so very much larger size.

Species 10. (Mus. Cuming.)

Pect. Aspen. Pect. testá inæquivalvi, æquilalerali, auriculis æqualibus, minulè serrato-striatis; valvá sinistrá planá, umbones versus paululum elevatá, costis octodecim subplano-biangulatis radiatá, costis interstitiisque concentricè striatis, pallidè rufuscente ubique
punctulatá; valvá dextrá convexá, costis novemdecim
sublævigatis radiatá, costis albis, rufescente sparsim
lineatis, interstitiis marginem versus rufescentibus.

THE ROUGH PECTEN. Shell inequivalve, equilateral, cars equal, minutely serrately striated; Left valve flat, a little raised towards the umbocs, rayed with eighteen rather flatly two-angled ribs, ribs and interstices concentrically striated, dotted everywhere with pale red; right valve convex, rayed with nineteen rather smooth ribs, ribs white, sparingly lineated with red, interstices red towards the margin.

Sowerby, Thesaurus Conch. vol. i. p. 50.

Pecten tricarinatus? Anton.

Hay. New Guinea; Hinds.

It is a peculiarity in this species, that there is less colouring on the ribs than in the interstices.

Species 11. (Mus. Cuming.)

Pecten Stellatus. Pect. testa subsequivalvi, tennicula, subcompressa, paululum altiore quam longa, auriculis parviusculis, subsequalibus; valva sinistra costis sex-radiata, interstitiisque longitudinaliter liratis et tennistriatis, rufescente, punctis angulatis albis aspersa; valva dextra costis latioribus subrudibus septem-radiata, costis interstitiisque liratis, alba, umbonem versus albipunctato-rufescente.

THE STARRY PECTEN. Shell nearly equivalve, rather thin and compressed, a little higher than long, ears rather small, nearly equal; left valve rayed with six ribs, ribs and interstices longitudinally ridged and finely striated, light red, sprinkled with white angular

dots; right valve rayed with seven broader and rather rude ribs, ribs and interstices ridged, white, stained with white-dotted red towards the umbo.

Hab. --- 9

Distinguished from P. Danicus, to which it is nearly allied, by its conspicuous sculpture of ribs and ridges.

Species 12. (Mus. Cuming.)

Pecten velutinus. Pect. testá subæquivalvi, compressá, altiore quam longá, æquilaterali, radialim tiratostriatá, auriculis subæqualibus; valvá sinistrá costis quinque elevatiusculis rotundatis subangustis radiatá, interstitiis latis, fulvo-rufescente, alho promiscuè strigatá el punctulatá; valvá dextrá costis sex latis, interstitiis angustis, albá.

THE VELVET PECTEN. Shell nearly equivalve, compressed, higher than long, equilateral, radiately ridge-like striated, ears nearly equal; left valve rayed with five raised rounded rather narrow ribs, with the interstices broad, fulvous-red, promiscuously streaked and dotted with white; right valve with six broad ribs and the interstices narrow, white.

SOWERBY, Thesaurus Conch. vol. i. p. 63. pl. 13. f. 31. *Hab.* Macassar, Island of Celebes; Hinds.

A delicately formed species, partaking of the character of P. subplicatus.

Pecten, Pl.III.

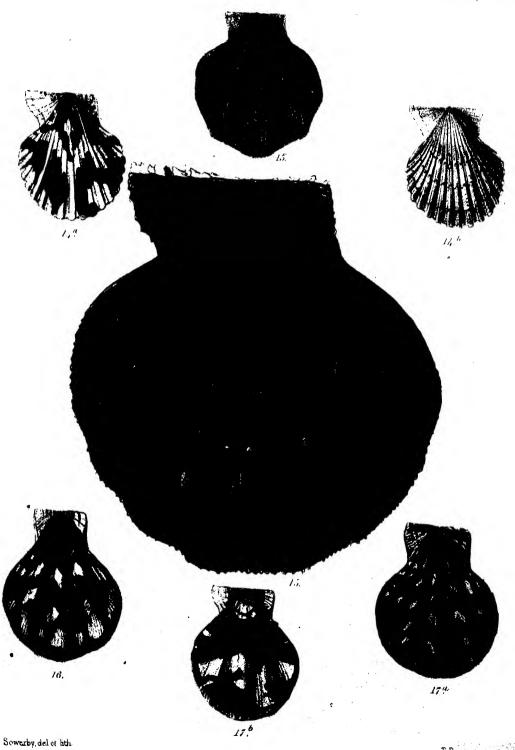




PLATE III.

Species 13. (Mus. Cuming.)

Pecten Danicus. Pect. testá suborbiculari, inaquivalvi, tenui, subcompressá, auriculis subaqualibus, striatis; valvá sinistrá plano-convexá, costis quinque ad sex vix elevatis latiusculis leviter angulatis radiatá, costis tenuiliratis, interstitiisque undique tenuissimè decussatim striatis, fulvo-rufá, punctis pallidis promiscuè densè aspersá; valvá dextrá convexiore, costis sex depresso-capvexis latioribus, lateribus subrugoso-liratis, albá, ad umbonem rufescente.

THE DANISH PECTEN. Shell nearly orbicular, inequivalve, thin, somewhat compressed, ears nearly equal, striated; left valve flatly convex, rayed with five to six ribs but little raised, rather broad, slightly angled, finely ridged, and, with the interstices, everywhere very finely decussately striated, fulvous red, promiscuously densely sprinkled with pale dots; right valve more convex, with six depressly convex broader ribs, sides somewhat roughly ridged, white, tinged with red at the umbo.

CHEMNITZ, Conch. Cab. vol. xi. p. 265. pl. 207. f. 2043.

Pecten aspersus, Lamarck (not of Sowerby).

Ostrea triradiata, Müller.

Ostrea hybrida, Dillwyn.

Pecten pseudamusium, Chemnitz (not of Klein).

Ostrea septemradiata, Gmelin.

Pecten glaber, Montagu.

Pecten nebulosus, Brown.

Pecten Jamesonii, Smith.

Hab. Hebrides, Zetland, Scandinavia.

Extremely variable in form and sculpture, but less variable in colour and marking than many other species of this genus.

Species 14. (Fig. a and b, Mus. Cuming.)

Peuten Tranquebarious. Pect. testă trigono-orbiculari, aquivalvi, aquilaterali, auriculis valde inaqualibus; valvis convexiusculis, costis octodecim lavibus elevatis subquadratis, lateribus minute serratis, radiată, interstitiis subprofunde excavatis; colore variă, albă, nunc castaneo marmorată, nunc aurantio-rufescente tinciă.

THE TEANQUEBAR PECTEN. Shell triangularly orbicular, equivalve, equivalve, equilateral, ears very unequal; valves rather convex, rayed with eighteen smooth raised somewhat square ribs, minutely serrated at the sides, interstices

rather deeply excavated; colour various, white, now marbled with chestnut, now tinged with orange-red. Ostrea Tranquebarica, Gnuclin, Syst. Nat. p. 3328.

Pecten Tranquebaricus, Lamarck.

Ostrea undulata, Born.

Ostrea nucleus, Dillwyn (not of Born).

Hab. Tranquebar.

Of an elegant symmetrical growth, extremely variable in colour.

Species 15. (Mus. Cuming.)

Pecten nodosus. Pect. testá subæquivalvi, æquilaterali, auriculis inæqualibus; valvis subplano-convexis, costis novem ampliter nodosis radiatis, costis interstitiisque undique nodoso-liratis, costis valvæ dextræ planioribus, latioribus, vix nodosis; valvá sinistrá intensè brunneo-rubrá, dextrá pallidiore.

THE KNOBBED PECTEN. Shell nearly equivalve, equilateral, ears unequal; valves rather flatly convex, rayed with nine largely knobbed ribs, ribs and interstices nodosely ridged throughout, ribs of the right valve flatter, broader, scarcely nodose; left valve deep brown-red, right valve paler.

Ostrea nodosa, Linnæus, Syst. Nat. p. 1145.

Pecten nodosus, Lamarck.

Ostrea decemradiata, Gmelin.

Pecten corallinus, Chemnitz.

Mab. Gulf of Mexico.

This fine and well-known species varies from a rich brown-red to a deep coral-red colour.

Species 16. (Mus. Cuming.)

Pecten Plica. Pect. testá trigono-ovatá, subæquivalvi, æquilaterali, lateribus versus umbones compressis, auriculis parviusculis, æqualibus; valvis undique striatis, costis tribus ad quinque radiatis, costis valvæ sinistræ rotundatis, elevatis, prope marginem dectivibus, valvæ dextræ latioribus, convexis, minus elevatis; valvá sinistrá fulvescente-albá, castaneo-rufo latè marmoratá, dextrá albá, immaculatá.

THE FOLD PECTEN. Shell triangularly ovate, nearly equivalve, equilateral, sides compressed towards the umboes, ears rather small, equal; valves striated throughout, rayed with three to five ribs, ribs of the

November, 1852.

left valve rounded, raised, slanting down near the margin of the right valve, broader, convex, less raised; left valve fulvous-white, broadly marbled with chestnut-red, right valve white, unspotted.

Ostrea plica, Linnæus, Syst. Nat. p. 1145.

Pecten plica, Lamarck.

Hab. China, Ceylon.

Curiously distinguished by a kind of supplementary growth next the margin, in which the ribs are almost obsolete.

Species 17. (Fig. a, b, Mus. Cuming.)

Pecten subplicatus. Pect. testa subtrigono-ovata, subæquivalvi, æquilaterali, compressa, lateribus versus umbones subcompressis, auriculis æqualibus; valvis undique striatis, costis tribus aut quinque radiatis, costis subelevatis, prope marginem declivibus, valvæ dextræ latioribus; valvā sinistrā albo castaneoque variegatā, versus umbones violascentibus, dextrā albā, castaneo interdum pallidē tinctā.

THE SUBPLICATE PECTEN. Shell somewhat triangularly ovate, nearly equivalve, equilateral, compressed, sides a little compressed towards the umboes, ears equal; valves striated throughout, rayed with three to five ribs, ribs somewhat raised, slanting near the margin, of the right valve broader; left valve variegated with white and chestnut, violet towards the umboes, right valve white, sometimes faintly-tinged with chestnut.

Sowerby, Thesaurus Conch. vol. i. p. 64. pl. 13. f. 37, and pl. 14. f. 72, 73, 81.

Hab. Island of Corrigidor, Bay of Manila (in coarse sand at the depth of seven fathoms); Cuming.

This appears to be little more than a variety of the preceding species, thinner and more compressed. The detail of character is the same throughout.

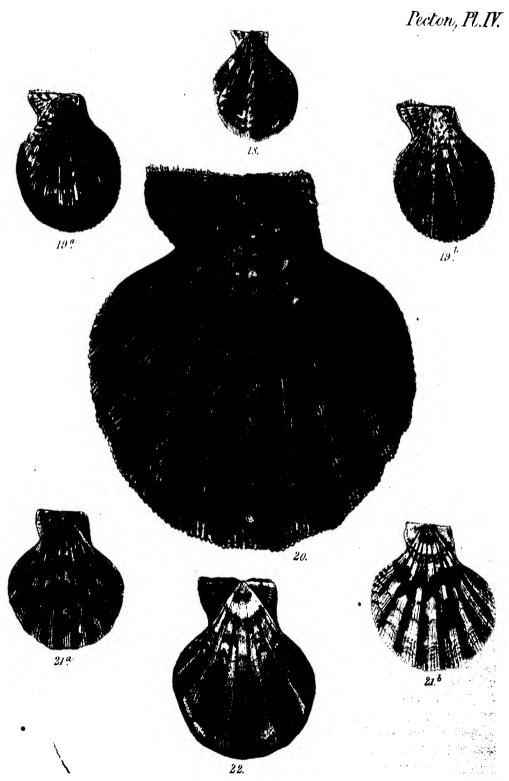


PLATE IV.

Species 18. (Mus. Cuming.)

PECTEN CLAVATUS. Pect. testá trigono-orbiculari, inaquivalvi, æquilaterali, auriculis parvis, inæqualibus; valvis tenuibus, minutè granuloso-striatis, sinistrá concavo-depressá, costis quinque tumidiusculis subacutis radiatá, prope marginem inflatis, aurantio-rufescente, punctis pallidis dense lentiginosá; valvá dextrá convexá, costis quiuque latioribus inflatis, albá.

THE STUDDED PECTEN. Shell triangularly orbicular, inequivalve, equilateral, ears small, unequal; valves thin, minutely granulately striated; left valve concavely depressed, rayed with five rather sharp swollen ribs, inflated near the margin, orange-red, densely freekled with light dots; right valve convex, with five broader inflated ribs, white.

Poli, Test. utr. Sicil. pl. 1. f. 17.

Eadem var., Pecten inflexus, Poli.

Pecten Dumasii, Payraudeau.

Hab. Sicily.

Very closely allied to P. Danicus, and probably only a variety of that species.

Species 19. (Fig. a, b, Mus. Cuming.)

Pecten irregularis. Pect. testá oblique ovatá, tenuiculá, subæquivalvi; valvá dextrá convexiore, subirregulari, auriculis valde inæqualibus, posticis parvis, brevibus; valvis costis parvis numerosis, vix scabrosis, radiatis; colore variá, nunc vicide miniaceá, nunc purpureo-violaceá, albo maculatá et obscure radiatá, albo interdum fusco-punctato.

THE IRREGULAR PECTEN. Shell obliquely ovate, rather thin, nearly equivalve; right valve more convex, rather irregular, ears very unequal, the posterior small, short; valves rayed with numerous small slightly scabrous ribs; colour various, now bright vermilion, now purple-violet, blotched and obscurely rayed with white, the white being sometimes dotted with brown.

SOWERBY, Thesaurus Conch. p. 69. pl. 13. f. 51-2. Hab. Eastern Seas.

An extremely interesting species, bearing some general resemblance to *P. pusio*.

Species 20. (Mus. Cuming.)

Pecten sunnodosus. Pect. testá subrquivalvi, requilaterali, auriculis inrequalibus; valvis liris angustis numerosissimis radiatis; valvá sinistrá costis decem hic illic nodosis, dextrá costis undecim lævibus radiatá; purpureo-brunneá, rufo tinctá, lineis albis brevibus undatis concentrice notatá.

The subnodose Pecten. Shell nearly equivalve, equilateral, ears unequal; valves rayed with very numerous narrow ridges; left valve rayed with ten ribs, here and there nodose; right valve with eleven ribs, smooth; purple-brown, tinged with red, concentrically marked with waved white lines.

SOWERBY, Pro. Zool. Soc. 1835, p. 109.

Hub. Mexico and West Columbia (in sandy mud and coral sand, at a depth of from ten to seventeen fathoms); Cuming.

Most readily distinguished at first sight from P. nodosus by its concentric white-waved marking.

Species 21. (Fig. a, b, Mus. Cuming.)

Pecten Flabelloides. Pect. testă suborbiculari, ad latera prope umbones compressă, aquivalvi, aquilaterali,

a auriculis subaqualibus; valvis medio convexis, versus
marginem compressis et fortiter radiatim tenuiliratis,
costis octo ad novem rotundatis subelevatis radiatis;
albă aut lutescente, castaneo vel purpureo-nigro plus
minus marmorală.

THE FAN-LIKE PECTEN. Shell nearly orbicular, compressed at the sides near the umboes, equivalve, equilateral, cars nearly equal; valves convex in the middle, compressed and strongly finely radiately ridged towards the margin, rayed with eight to nine rather elevated rounded ribs; white or yellowish, more or less marbled with chestnut and purple-black.

Hab. Moluccas.

A strongly formed species of very regular and symmetric growth, compressed a little at the sides, after the manner of *P. plica*, but, unlike that species, expanded flatly out towards the margin into the shape of a fan.

PECTEN .- PLATE IV.

Species 22. (Mus. Cuming.)

Pecten Stranget. Pect. testá subtrigono-ovatá, æquivalvi, plano-compressá, æquilaterali, auriculis inæqualibus; valvis versus marginem tenuiliratis, costis quinqueradiatis, quarum tribus centralibus latiusculis plano-convexis, distantibus; valvá sinistrá lutescente-albá,
costis livido-fuscescentibus; valvá dextrá lutescentealbá, immaculutá, auriculis violascentibus, lateribus
purpureo-roseo strigatis.

STRANGE'S PECTEN. Shell somewhat triangularly ovate,

equivalve, flatly compressed, equilateral, ears unequal; valves finely ridged towards the margin, rayed with five ribs, of which the three central are rather broad, flatly convex, and distant; left valve yellowish-white, ribs livid-brown; right valve yellowish-white, unspotted, ears violet-tinged, sides streaked with purplerose.

Hab. Moreton Bay, Australia.

A very characteristic species, flatly compressed, broadly and sparingly ribbed, and strikingly coloured.

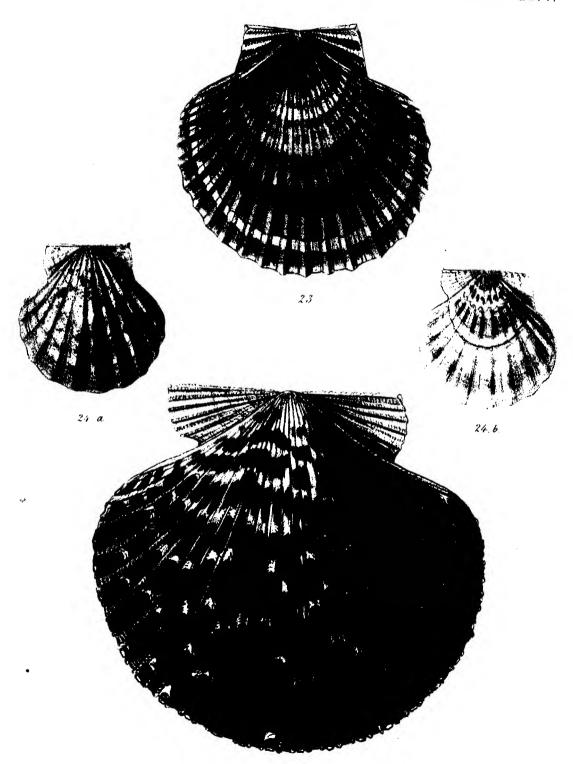


PLATE V.

Species 23. (Mus. Saul.)

Pecten sericeus. Pect. testá orbiculari, inaquivalvi; valvá sinistrá planá, dextrá convexá, aquilaterali, sub lente tenuissimè et creberrimè concentricè striatá, costis viginti medio angulatis subdistantibus nitidè radiatá; rufescente-spadiceá, umbones versus roseo tinctá, valvá dextrá pallidiore; auriculis aqualibus, planulatis, eliratis.

THE SILKY PECTEN. Shell orbicular, inequivalve; left valve flat; right valve convex, equilateral, very broadly and closely concentrically striated, neatly rayed with twenty rather distant middle-angled ribs; reddish fawn-colour, tinged with rose towards the umboes, right valve paler; ears equal, flattened, not ridged.

HINDS, Moll. Voy. Sulphur, p. 60. pl. 17. f. 1.

Hub. Bay of Panama (on a muddy floor at the depth of fifty-three fathoms); Belcher.

Distinguished by its beautifully symmetrical form and sharply angled ribs, which towards the umboes are delicately minutely painted with lake-rose. The only specimen known.

Species 24. (Fig. a, b, Mus. Cuming.)

Pectien unicolor. Pect. testá subordiculari, inæquivalvi; valvá sinistrá convexá, dextrá subplanulatá, æquilaterati, costis novem ad decem convexis parum elevatis radiatá, interstitiis radiatim striatis et leviter sulcatis; rufo-aurantiá, vel albá purpureo-lacco aut fuscescente tinctá; auriculis valvæ sinistræ fere æqualibus, dextræ inæqualibus, anticá subtus emarginatá et quadridenticulatá.

THE ONE-COLOURED PROTEN. Shell nearly orbicular, inequivalve; left valve convex; right valve rather flattened, equilateral, rayed with nine or ten convex

slightly raised ribs, interstices radiately striated and lightly grooved; red-orange, or white tinged with purple-lake or light brown; ears of the left valve nearly equal, of the right valve unequal, the front one being emarginated at the lower part, and four-denticled.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vii. p. 138.

Pecten aurantius, Sowerby.

Hab. Mediterranean and Black Seas.

Varying extremely in colour, but constant in form and sculpture.

Species 25. (Mus. Cuming.)

Pecten purpuratus. Pect. testa subovata, paulo longiore quam alla, aquivalvi, aquilaterali, valvis crassiusculis, costis duabus et viginti convexo-planis utrinque serratis radiatis, interstitiis lira serrata versus
marginem ornatis; costis intense purpureis, hic illic
albo marmoratis, interstitiis purpureo-roseis; auriculis
valva sinistra aqualibus, dextra inaqualibus, antica
subtus emarginata, et subobscure quadridenticulata.

THE PURPLE-STAINED PECTEN. Shell subovate, a little longer than high, equivalve, equilateral, valves rather thick, rayed with two-and-twenty convexly flattened ribs, serrated on either side, interstices ornamented towards the margin with a serrated rib; ribs very dark purple, mottled here and there with white, interstices purple-lake; ears of the left valve equal, of the right valve unequal, the front one being emarginated below, and obscurely four-denticled.

LAMARCK, Anim. sans vert. (Deshayes'edit.) vol. vii.p. 134. Hab. Bay of Callao, Peru.

This fine and well-known species may be readily distinguished by its form and mottled purple colouring.



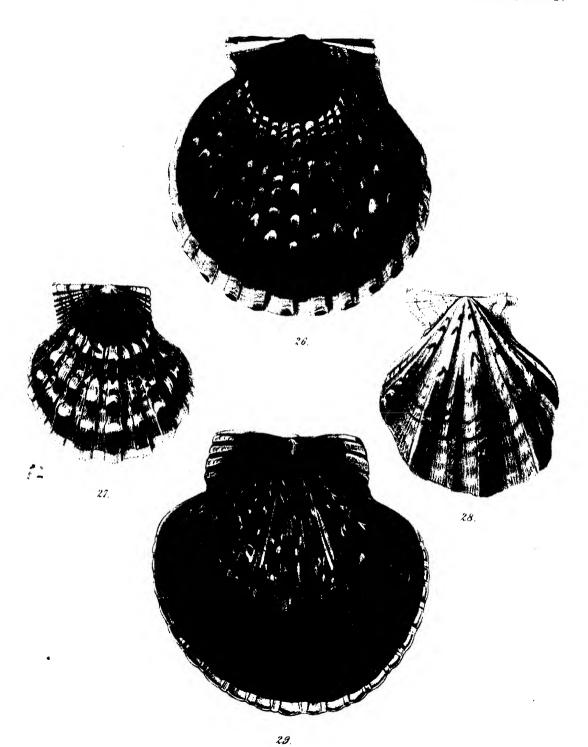


PLATE VI.

Species 26. (Mus. Cuming.)

Pecten irradians. Pect. testá subquadrato-orbiculari, inæquivalvi; valvá sinistrá convexá, dextrá convexiore, equilaterali, valvis concentricò creberrimò tenuistriatis, costis quindecim ad sexdecim convexis subelevalis radiatis; valvá sinistrá caruleo-nigrá aut fuscá, albo marmoratá, dextrá pullidiore, sæpe albá; auriculis subequalibus, anticis paululum emarginatis.

THE BEAMING PECTEN. Shell somewhat squarely orbicular, inequivalve; left valve convex, right valve more convex, equilateral, valves concentrically very closely finely striated, rayed with fifteen to sixteen slightly raised convex ribs; left valve blue-black or brown, mottled with white, right valve paler, often white; cars nearly equal, the front ones a little emarginated.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vii. p. 143.

Pecten turgidus, Sowerby (not of Lamarck).
Pecten concentricus, Say.

Hab. Mediterranean,

The bluish colouring of this species, which runs into the mottled white spaces, is characteristic.

Species 27. (Mus. Cuming.)

Pecten corallinoides. Pect. testá suborbiculari, æquivalvi, vix æquilaterali; valvis subventricosis, crassis,
costis novem ad decem grandibus turgidis ampliler nodatis radiatis, costis interstitiisque radiatim serratoliratis, costis valvæ dextræ majoribus; albidá aut purpureo-fuscá, intensè corallio-rubro plus minus tinctá
et punctatá, valvá dextrá pallidiore, sæpe albá; auriculis valde inæqualibus.

THE CORAL-LIKE PECTEN. Shell somewhat orbicular, equivalve, scarcely equilateral; valves subventricose, thick, rayed with nine to ten large, swollen, largely knobbed ribs, ribs and interstices radiately serrately ridged, ribs of the right valve larger; whitish or purple-brown, more or less stained and dotted with deep coral-red, right valve paler, often white; cars very unequal.

D'Orbigny, Moll. des Isles Canaries, p. 102. Hab. Zanzibar.

Very closely allied to Pecten nodorus, but of much smaller size, and of a peculiar coral-red painting, stained

chiefly on the swollen knobs of the left valve. The specimen here figured is unusually large.

Species 28. (Mus. Cuming.)

Pecten Pes-anatis. Pect. testá suborbiculari, tenuiculá, irregulari, æquilaterali, subæquiculvi; valvis radiatim elevato-striatis, costis quinque tumidiusculis distantibus radiatis; valvá sinistrá albidá, fuscescente tinctá et punctatá, costis lividis, dextrá albá; auriculis valva sinistra subæqualibus, dextra inequalibus.

THE DUCK'S-FOOT PECTEN. Shell somewhat orbicular, rather thin, irregular, equilateral, nearly equivalve; valves radiately elevately striated, rayed with five, rather swollen, distant ribs; left valve whitish, stained and dotted with light brown, ribs livid, right valve white; cars of the left valve nearly equal, of the right valve unequal.

Hab. Moluceas.

A thin species, of curious irregular growth, rayed with five distant livid ribs, having sometimes a trace of an intermediate rib.

Species 29. (Mus. Cuming.)

Pecten ziczac. Pect. testő orbiculari, inæquivalvi; valvá
sinistrá concavo-planá, dextrá valde convexá, æquilaterali; valvá sinistrá concentrice tenuissime striatis, radiatim sulcatis, sulcis ad triginti, irregularibus, dextrá
sulcis ad viginti radiatis, sulcis linearibus, regularibus;
rufo-purpured, valvá sinistrá cinereo promiscue radiatá, maculisque paucis albis aspersá; auriculis æqualibus. distanter sulcatis.

THE ZIGZAG PECTEN. Shell orbicular, inequivalve; left valve concavely flattened, right valve extremely convex, equilateral; left valve concentrically very finely striated, radiately grooved, grooves about thirty, irregular, right valve rayed with twenty grooves, which are linear and regular; reddish-purple, left valve promiscuously rayed with ash, and sprinkled with small white spots; ears equal, distantly grooved.

Ostrea ziczac, Linnæus, Syst. Nat. p. 1144.

Pecten ziczac, Chemnitz.

Hab. Red Sca and Philippine Islands.

This well-known species is remarkable for its very inequivalve proportions, and rich colouring.



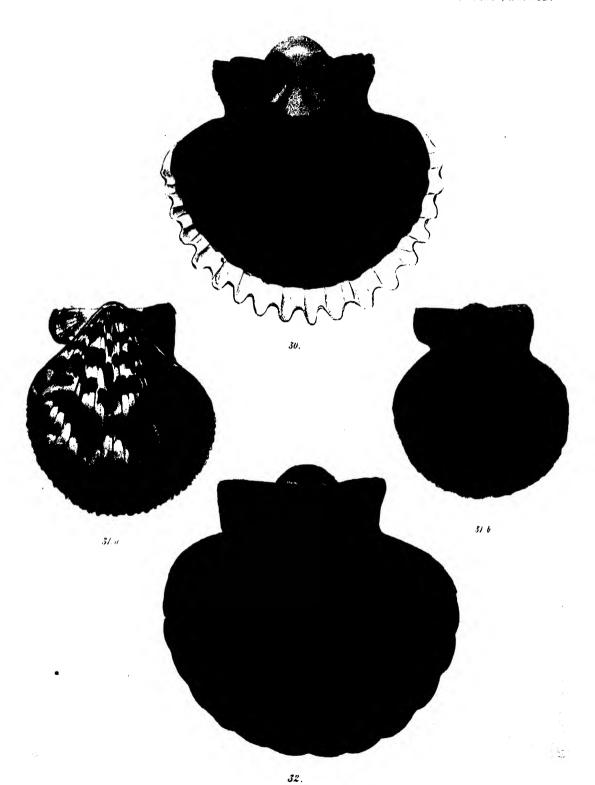


PLATE VII.

Species 30. (Mus. Cuming.)

Pecten dentatus. Pect testá semiglobosá, æquilaterali, inæquivalvi; valvá dextrá valde rotundato-convexá, valvá sinistrá concavo-planatá, in dextrá immersá, radiatim costatá et sulcatá, costis sexdecim ad septemdecim, liratis et angulatis, costis valvæ dextræ rotundatis, lævibus, ad marginem conspicuè dentatis; valvá sinistrá cinereo-fuscá, purpureo-rufo subtinctá, dextrá fulvá, immaculatá; auriculis æqualibus, sinistrorsum inclinatis.

THE TOOTHED PECTEN. Shell semiglobose, equilateral, inequivalve; right valve very rotundately convex, left valve concavely flattened, immersed in the right valve, radiately ribbed and grooved, ribs sixteen to seventeen, ridged and angled, ribs of the right valve rounded, smooth, conspicuously toothed at the margin; left valve ash-brown, faintly tinged with purplered, right valve fulvous, unspotted; cars equal, bent over towards the left valve.

SOWERBY, Pro. Zool. Soc. 1835, p. 109.

Hab. St. Elena, West Columbia (found among stones and sand in twelve fathoms); Cuming.

Chiefly distinguished by the prominent extent to which the left valve is immersed in the right one, leaving its dentated margin standing conspicuously up all round.

Species 31. (Fig. a, b, Mus. Cuming.)

Pecten ventricosus. Pect. testá subglobosá, æquilaterali, subæquivalvi; valvis, dextrá paulo majore, crassiusculis, ventricosis, costis octodecim distinctis subplanulatis radiatis, interstitiis concentricè tenuistriatis; purpureoluccá, vel nigrá, albo-marmoratá, valvá dextrá sæpe pallidiore; auriculis majusculis, subæqualibus.

THE VENTRICOSE PECTEN. Shell somewhat globose, equilateral, nearly equivalve; valves, the right valve being somewhat larger, rather thick, ventricose, rayed

with eighteen distinct rather flattened ribs, the interstices between which are concentrically very finely striated; purple-lake, or black, marbled with white, right valve often paler; ears rather large, nearly equal.

Pecten tumidus, Sowerby (not of Turton), Pro. Zool. Soc. 1835, p. 109.

Pecten ventricosus, Sowerby (in Thesaurus Conch.).

Hab. St. Elena, West Columbia (in sandy mud at a depth of six to ten fathoms), and Philippine Islands: Curning.

Chiefly characterized by its strong ventricose growth, and rich marbled colouring.

Species 32. (Mus. Cuming.)

Pecten fumatus. Pect. testá elongato-ovatá, æquilaterali, inæquivalvi; valvá sinistrá concavo-planá, dextrá subimmersá, costis duodecim angustis pluno-elevatis, utrinque angulatis subdistantibus radiatá; valvá
dextrá valde convexá, costis latioribus, convexis, prope
marginem plus minus evanidis; valvá sinistrá intensè
funco-purpureá, dextrá lipido-cinereá, prope umbonem
purpureo-rufá; auriculis æqualibus, sinistrorsum inclinatis.

THE SMOKED PECTEN. Shell elongately ovate, equilateral, inequivalve; left valve concavely flattened, a little immersed in the right valve, rayed with twelve narrow flatly raised rather distant ribs angled on each side; right valve very convex, with the ribs broader, convex, and more or less fading near the margin; left valve deep smoky-purple, right valve livid-ash, purple-red near the umbo; ears equal, beut forward towards the left valve.

Hab. Sydney, Australia,

Distinguished by the flatly angled form of the left ribs, and peculiar dark smoky colouring.



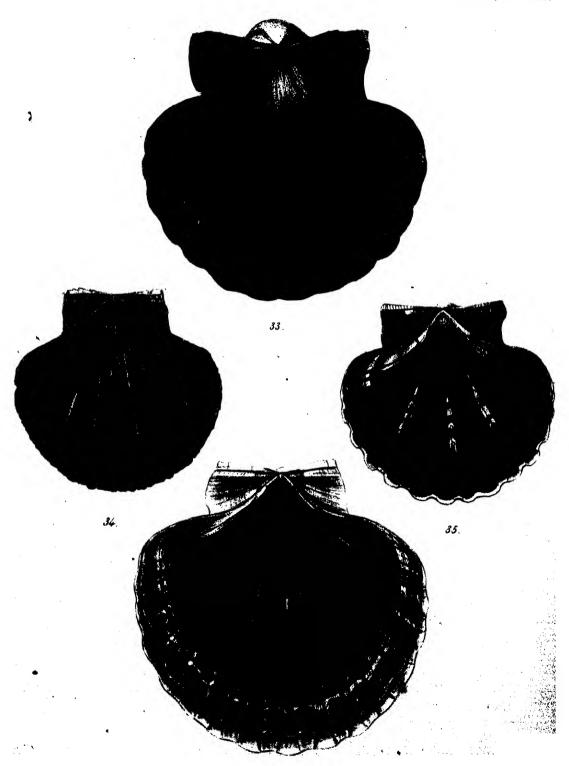


PLATE VIII.

Species 33. (Mus. Cuming.)

Pecten Sinensis. Pect. testá subelongato-ovatá, æquilaterali, inæquivalvi; valvá sinistrá excavato-concavá,
in dextrá immersá, costis undecim subangustis convexoplanulatis utrinque subangulatis radiatá, rufescentefuscá, maculis albidis angularibus rufo-marginatis interdum adspersá; valvá dextrá convexissimá, costis
latis, convexis, confertis, radiatim sulcatis, cinereo-rufá,
versus umbonem indistincté marmoratá; auriculis magnis, sinistrorsum inclinatis.

THE CHINESE PECTEN. Shell rather elongately ovate, equilateral, inequivalve; left valve excavately concave, immersed in the right valve, rayed with eleven rather narrow convexly flattened ribs, slightly angled on both sides, reddish-brown, sometimes sprinkled with red-edged angular white spots; right valve very convex, with the ribs convex, broad, close-set, and radiately grooved, ash-red, mottled towards the umbo; ears large, bent over towards the left valve.

SOWERBY, Thesaurus Conch. vol. i. p. 48. pl. 16. f. 120, 121, and 134.

Pecten excavatus? Anton.

Hab. China.

Chiefly characterized by the concavely immersed growth of the left valve, which is most conspicuous in the young.

Species 34. (Mus. Saul.)

Proten floridus. Pect. testá vix elongato-ovatá, aquilaterali, inæquivalvi; valvis compressis, concentricò tenuistriatis, costis octodecim radiatis; valvá sinistrá planá, medio subconvexá, costis valde elevatis, angustis, medio angulatis, dextrá convexá, costis valde elevatis, prominentibus, utrinque angulatis, medio sulcatis; valvá sinistrá roseo-fuscescente, obscurò maculatá, dextrá pallidiore, immaculatá; auriculis æqualibus.

THE FLORID PECTEN. Shell rather elongately ovate, equilateral, inequivalve; valves compressed, concentrically finely striated, rayed with eighteen ribs; left valve flat, slightly convex in the middle, with the ribs much raised, narrow, angled in the middle; right valve convex, with the ribs much raised, prominent, angulated on each side, grooved down the middle; left valve rose-brown, obscurely spotted, right valve paler, unspotted; ears equal.

HINDS, Moll. Voy. Sulphur, p. 60. pl. 17. f. 6.

Hab. San Diego, California (in mud at the depth of five fathoms); Belcher.

Remarkably distinguished by the prominent development of the ribs, which in the left valve are abarply angled

in the middle, and in the right valve are squared and then grooved in the middle.

Species 35. (Mus. Cuming.)

PECTEN FUSCUS. Pect. testá subelongato-ovatá, æquilaterali, inæquivalvi; valvá sinistrá planá, prope umbonem concavá, in valvá dextrá subimmersá, costis quatuordecim convexis subangustis radiatá, fuscescente, ustulato-fusco tinctá et obscurè maculatá; valvá dextrá
convexá, costis quindecim plano-convexis latioribus radiatá, livido-cinereá, prope umbonem rufescente maculatá; auriculis majusculis, sinistrorsum inclinatis.

THE BROWN PECTEN. Shell somewhat elongately ovate, equilateral, inequivalve; left valve flat, concave near the umbo, a little immersed in the right valve, rayed with fourteen rather narrow convex ribs, light brown, stained and obscurely spotted with burnt brown; right valve convex, rayed with fifteen flatly convex broader ribs, livid-ash, spotted with light red near the umbo; ears rather large, bent over towards the left valve.

KLEIN, Sowerby, Thesaurus Conch. vol. i. p. 47. pl. 16. f. 118, 119.

Hab. Moreton Bay, East Australia; Strauge.

Of the same peculiar livid-ash colour on the right valve as in P.fumatus.

Species 36. (Mus. Cuming.)

Pecten Nove-Zelandie. Pect. testá subelongato-orbiculari, æquitaterali, inæquivalvi; valvis concentrice
minutissime striatis; sinistra plana, prope umbonem
concaviuscula, in valva dextra subimmersa, costis subangustis convexis quatuordecim mitide radiata, albicante, spadiceo-rufo tincta; dextra expanso-convexa,
costis quindecim sublatioribus radiata, alba; auriculis
æqualibus, sinistrorsum subinclinatis.

THE NEW ZEALAND PECTEN. Shell somewhat clongately orbicular, equilateral, inequivalve; valves very minutely concentrically striated; left valve flat, rather concave near the umbo, a little immersed in the right valve, neatly rayed with fourteen rather narrow convex ribs, whitish, stained with fawn-red; right valve expandedly convex, rayed with fifteen rather broader ribs, white; ears equal, bent a little forwards towards the left valve.

Has, New Zealand; Hart.

A beautifully symmetrical neatly-ribbed species, of a delicate subtransparent white, stained on the left valve with rich fawn-red.



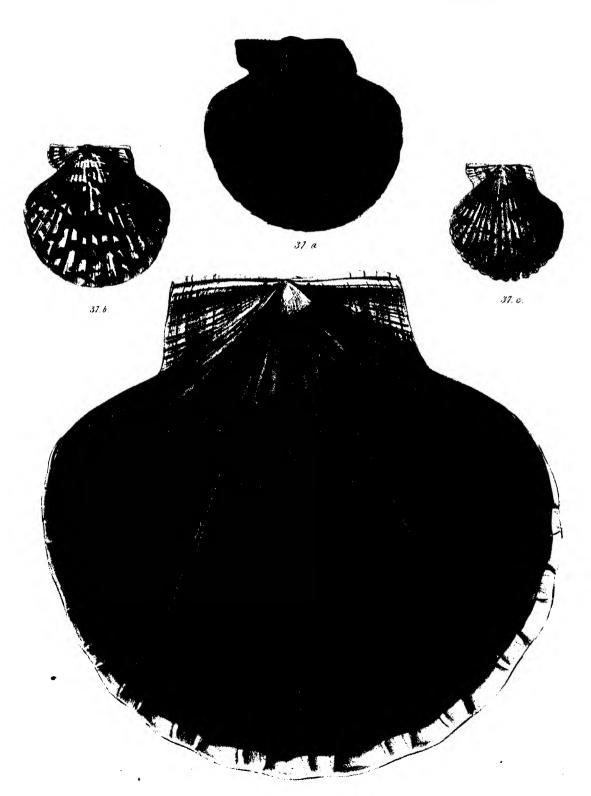


PLATE IX.

Species 37. (Fig. a, b, c, Mus. Cuming.)

Pecten Gibbus. Pect. testá subgibbá, æquivalvi, æquilaterali, costis mediocribus octodecim ad viginti radialá, costis interstitiisque minuté creberrime serrato-liratis, rosaceá vel albá, cinereo-nigricante marmoratá, interdum intense purpurascente-sanguineá, immaculalá, valvá dextrá plerumque pallidiore; auriculis subæqualibus.

THE GIBBOUS PECTEN. Shell rather gibbous, equivalve, equilateral, rayed with eighteen to twenty middling ribs, ribs and interstices minutely very closely serrately ridged, pink or white, marbled with ash-black, sometimes deep purplish blood-colour, unspotted, right valve generally paler; ears nearly equal.

Ostrea gibba, Linnæus, Syst. Nat. (12th edit.) p. 1147.

Pecten gibbus, Lamarck.

Pecten rubicundus, Chemnitz.

Pecten Sowerbyi, Guilding.

Ostrea flabellum, Gmelin.

Hab. Senegal, West Africa.

Mostly of a marbled variegated painting, although the marbling is sometimes wanting.

Species 38. (Mus. Cuming.)

Pecten Maximus. Pect. lestă suboblongo-rotundată, vix aquilaterali, inaquivalvi, valvis radiatim irregulariter lineuri-liratis, costis duodecim ud tredecim convexis; valvă sinistră planulată, medio leviter elevată, prope umbonem depresso-concavă, in valvă dextră subimmersă, rufo-fuscă, castaneo sparsim maculată; valvă dextră convexă, subgibbă, albidă; auriculis aqualibus.

THE LARGEST PECTEN. Shell somewhat oblong-rounded, nearly equilateral, inequivalve, valves radiately irregularly linearly ridged, with twelve to thirteen convex ribs; left valve flattened, slightly raised in the middle, depressly concave near the umbo, a little immersed in the right valve, red-brown, sparingly spotted with chestnut; right valve convex, rather gibbous, whitish; cars equal.

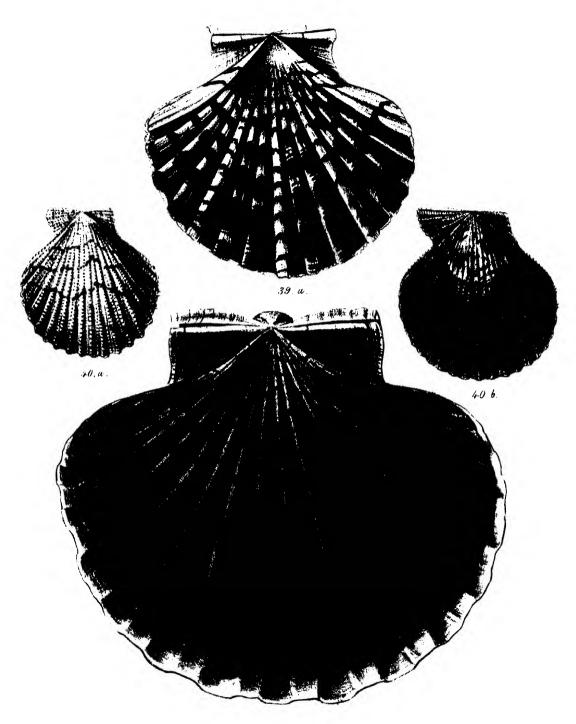
Ostrea maxima, Linnæus, Syst. Nat. (12th edit.) p. 1144.

Pecten maximus, Lamarck.

Pecten wulgaris, Da Costa.

Hab. British and Mediterranean Seas.

This well-known scallop is chiefly distinguished from its nearest ally, the *P. Jacobæus*, by the broad gentle convexity of the right ribs.



39.6.

PLATE X.

Species 39. (Fig. a, Mus. Saul, and Fig. b, Mus. Cuming.)

Pecten Jacobaus. Pect. testa suboblongo-ovata, subaquilaterali, inaquivalvi, costis quatuordecim ad quindecim radiată; vulvă sinistră concavo-planulată, costis
plus minus elevatis, supernè rotundatis, interdum marginem versus planulatis et tennè liratis, rufo-fuscă,
purpureo-castaneo maculată; valvă dextră albă, costis
avutè quadratis et liratis, in testă juniore interdum minute squamatis, interstitiis profunde excavatis; auriculis
aequalibus.

THE ST. JAMES PECTEN. Shell somewhat oblong-ovate, nearly equilateral, inequivalve, rayed with fourteen to fifteen ribs; left valve concavely flattened, ribs more or less raised, rounded at the upper part, sometimes flattened and finely ridged towards the margin, redbrown, spotted with purple-chestnut; right valve white, with the ribs sharply squared and ridged, in the young shell sometimes minutely scaled, interstices deeply excavated; cars equal.

Ostrea Jacobæa, Linnæus, Syst. Nat. (12th edit.) p. 1144.

Pecten Jacobæus. Lamarck.

Hab. Mediterranean.

In the young shell represented at Fig. 39 a, the ribs are remarkably raised, those of the right valve being thickly finely squamate throughout.

Species 40. (Fig. a, b, Mus. Cuming.)

Pecten subbutus. Pect. testá subrotundatá, tenui, compressiusculá, subæquilaterali, æquivalvi, costis ad viginti anguslis, liratis et squamatis, radiatá: purpureo-rufescente, vel aurantiá, vix maculatá; auriculis inæqualibus.

THE REDDISH PECTEN. Shell nearly rounded, thin, rather compressed, nearly equilateral, equivalve, rayed with about twenty narrow ribs, which are ridged and squamate; purple-red or orange, searcely spotted; ears unequal.

TURTON, Dithyra Brit. p. 210. pl. 17. f. l.

Pecten opercularis, var., Forbes and Hanley.

Hab. Britain.

There is little doubt of this being anything more than a variety of *P. opercularis*.

December, 1852.



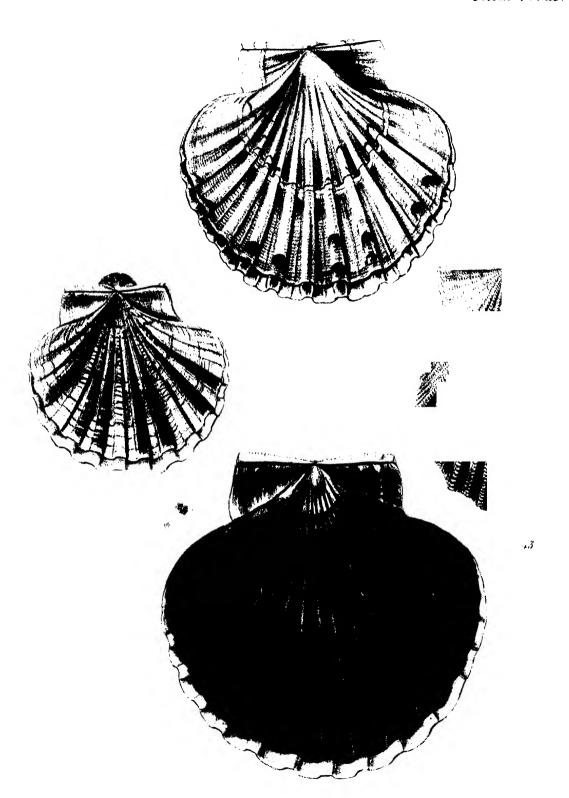


PLATE XI.

Species 41. (Mus. Saul.)

Pecten modestus. Pect. testá oblongo-ovald, æquilaterali, inæquivalvi, costis ad duodecim radiatá; valvá
sinistrá planulatá, prope umbonem concavá, in valvá
dextrá subimmersá, costis parviusculis, convexis, remotis, albá, maculis perpaucis purpureo-castaneis prope
marginem pictá; valvá dextrá gibboso-convexá, costis
latis, subquadratis, medio sulcatis, purpurascente-albá;
auriculis æqualibus.

THE MODEST PECTEN. Shell oblong-ovate, equilateral, inequivalve, rayed with about twelve ribs; left valve flattened, concave near the umbo, a little immersed in the right valve, ribs rather small, convex, distant, white, painted near the margin with a very few purple-chestnut blotches; right valve gibbously convex, ribs broad, somewhat square, grooved down the middle, purple-white; ears equal.

Hab. Moreton Bay, Australia.

Of a peculiar purplish-white tinge, very sparingly spotted. The ribs of the convex valve are peculiarly characterized by a single groove running down the middle.

Species 42. (Mus. Saul.)

Pecten Filosus. Pect. testá subglobosá, subæquilaterali, inæquivalvi, costis duodecim radiatá; valvá sinistrá subconcuvá, in valvá dextrá immersá, costis subplanulatis, albidá, purpureo-rufo promiscuè tenuilineatá et tinctá, costis saturatioribus; valvá dextrá convexá, valde gibbosá, costis planulato-convexis, albá, lineis tenuibus rufis promiscuè pictá; auriculis æqualibus.

THE THREAD-PAINTED PECTEN. Shell somewhat globose, nearly equilateral, inequivalve, rayed with twelve ribs; left valve slightly concave, immersed in the right valve, ribs rather flattened, whitish, promiscuously finely lineated and stained with purplered, ribs darker; right valve convex, very gibbous, ribs rather flatly convex, white, promiscuously painted with fine red lines; ears equal.

Hab. Moreton Bay, Australia.

Another very distinct new species from Australia.

Species 43. (Mus. Cuming.)

PROTEN HASTATUS. Pect. testa trigono-coald, altiere quam

tongá, æquilaterali, nisi auriculis valde inæqualibus, æquivalvi, valvis leviler convexis, sinistrá costis decem angustis spinoso-squamatis lirisque numerosis minutè squamatis radiatá, plus minus intensè roseá; valvá dextrá costis viginti minus elevatis lirisque numerosis squamatis radiatá, albidá, prope marginem roseo tinctá.

THE SPEARED PECTEN. Shell triangularly ovate, higher than long, equilateral, unless as respects the ears which are very unequal, equivalve, valves slightly convex; left valve rayed with ten narrow spine-scaled ribs, and numerous minutely scaled ridges, more or less deep pink; right valve rayed with twenty ribs, less raised, and numerous scaled ridges, white, stained with pink near the margin.

SOWERBY, Thesaurus Conch. vol. i. p. 72. pl. 20. f. 236. Hab. ——?

Of this very delicate and elaborately sculptured species two specimens are now known, one in Mr. Cuming's and one in Miss Saul's collection. A peculiarity in it worth noting is that each spine-scaled rib in the left valve is represented by two smaller ribs in the right valve, and on these the scales are less spinous.

Species 44. (Mus. Cuming.)

Pecten medius. Pect, testá subordiculari, subaquilaterali, inaquivalçi, costis quatuordecim ad quindecim radiatis; valvá sinistrá planulatá, prope umbonem concavá, in valvá dextrá immersá, costis uangustis, convexis, distantibus, rufo-fusco parum maculatá; valvá dextrá convexá, costis plano-convexis, lævibus, albá; auriculis aequalibus.

THE MIDDLE PECTEN. Shell orbicular, nearly equilateral, inequivalve, rayed with fourteen to fifteen ribs; left valve flattened, concave near the umbo, immersed in the right valve, ribs narrow, convex, distant, but little spotted with red-brown; right valve convex, ribs flatly convex, smooth, white; cars equal.

LAMARCE, Anim. sans vert. (Deshayes' edit.) vol. vii. p. 130.

Jab. West Indies.

Chiefly distinguished from P. maximus and Jacobaus by the smooth polished character of the right ribs.



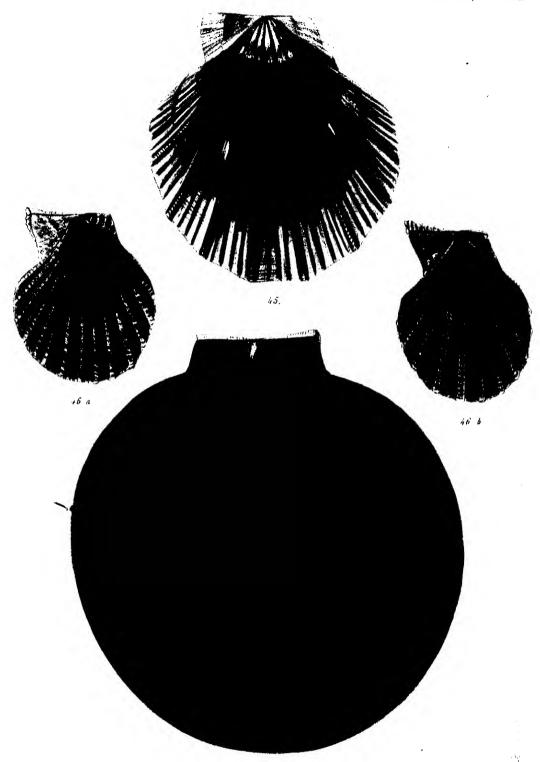


PLATE XII.

Species 45. (Mus. Cuming.)

PECTEN BIFRONS. Pect. testă trigono-orbiculari, aquilaterali, vix aquivalvi; valvă sinistră convexă, costis parvis septem ad octo lirisque numerosis linearibus radiată, interstitiis minute granulatis, violascente, costis lirisque |abibus, intense violaceis; valvă dextră planiore, ecostată, liris radiată, interstitiis undique minute granulatis; auriculis subaqualibus.

THE TWO-FACED PECTEN. Shell triangularly orbicular, equilateral, scarcely equivalve; left valve convex, rayed with seven to eight small ribs, and numerous linear ridges, interstices minutely granulated, violet, ribs and ridges smooth, deep violet; right valve flatter, not ribbed, rayed with ridges, the interstices being minutely granulated throughout; cars nearly equal.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol.vii. p. 131.

Mab. Port Adelaide. South Australia.

The surface of this species, save on the ribs and ridges, is of a peculiar bloom-coloured granular shagreen character.

Species 46. (Fig. a, b, Mus. Cuming.)

Pecten serratus: Pect. testa ovata, paulo altiore quam longá, tenui, compressa, inequilaterali; auriculis valde inequalibus; inequivalvi, valva destra paulo convexiore, valvis ambabus radiatim oostatis et tenuiliratis, costis ad decem, superficiariis, interdum fere obsoletis, squamatis, squamis subdistantibus; cerulescente-cinered, vel intense coccined, lineis tenuibus albis promiscue decussata, coccine pallidioribus.

THE SERRATED PROTEN. Shell ovate, a little higher than

long, thin, compressed, inequilateral; ears very unequal; inequivalve, right valve a little more convex, both valves radiately ribbed and finely ridged, ribs about ten in number, superficial, sometimes almost obsolete, squamate, scales rather distant; bluish-ash, or deep scarlet, promiscuously decussated with fine white lines; ribs paler.

SOWERBY, Thesaurus Conch. vol. i. p. 69, pl. 13. f. 56. Hab. Philippine Islands.

A very characteristic species, various in ground-colour, but curiously cross-laced with very delicate white lines.

Species 47. (Mus. Cuming.)

Pecten Japonicus. Pect. testa orbiculari, compressa, utrinque hiante, subæquilaterali, æquivalvi: valvis extus lævibus aut tenuissimè concentricè striatis, fusco-rubente, intus liris angustis binis qualuor vel sex et quadraginta radiata, alba, prope marginem lutescente; auriculis parvis, æqualibus.

The Japan Pecten. Shell orbicular, compressed, gaping on each side, nearly equilateral, equivalve; valves outside smooth or very finely concentrically striated, brown-red, inside rayed with from forty-four to forty-six narrow ridges, arranged two and two, white, yellowish near the margin; ears small, equal.

Ostrea Japonica, Gmelin, Syst. Nat. p. 3317.

Pecten Japonicus, Lamarck.

Hab, Japan, China.

Closely allied to P. pleuronectes, but of larger and firmer growth, and not rayed in the painting.

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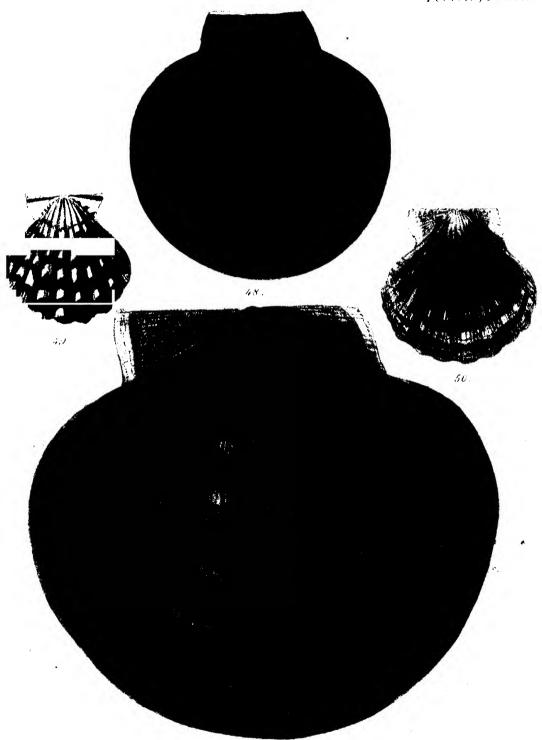


PLATE XIII

Species 48. (Mus. Cuming.)

Pecten Pleuronectes. Pect. testá suborbiculari, aquiloterali, tenniculá, æquivalvá, lævi, compressá, utrinque
subliante, auriculis æqualibus, parvis, obtusis, internè
costis duodreim duplicatis, vel quatuo, et viginti singulis radialá; valvá sinistrá livido-fulvá aut purpurascente, lineis tennibus radiatá, dexted albá.

THE RIB-RAYED PECTEN. Shell nearly orbicular, equilateral, rather thin, equivalve, smooth, compressed, ittle gaping on each side, auxicles equal, small, obtuse, rayed internally with twelve pairs of ribs or twenty-four single ones, left valve livid-fulvous or purplish, rayed with fine lines, right valve white.

Ostrea pleuronectes, Linnaus, Syst. Nat. (12th edit.) p. 1145.

Pecten pleurongotes, Lamagek.

Hub. China. to Me of & the

Chiefly distinguished from P. Japonicus by its smaller size, and line-rayed painting.

Species 49. (Mus. Cuming.)

PEC (N DISTANS. Pect. testá subaltiore quam longá, subaquivalvi, aquilaterali, suricuis subgrandibus; valvis
decennostatis, costis sulcisque amplis, prominentibus,
tenniliratis, valvá sinistrá ustulato-nigricante, albomuculato, dextrá albá val lutercente tinctá.

THE DISTANT PECTEN. Shell rather higher than long, nearly equivalve, equilaters, auxilies rather large; valves ten-ribbed, ros and groots large, prominent, finely-ridged, left valve barnt-black, marbled with white, right valve white or relicioush.

p. 139.

Hab. Philippins Islands; Ouming.

A strongly-developed species, with the ribs and interstices in both valves of about the same width.

50. (Mus. Cuming.)

EN SULDATUS. Pect. testá suborbiculari, tenniculá, aquivalol, subaquilaterali; valvis decemcostatis, contis latiusculio, parum elevatis, sulcisque tennitiratis, valvá sinistra cinereo-fulvá, punctis nigris aspersá, dextrá lutescente, unionem versus fusco-punctatá.

The spoored Pecten. Shell nearly orbicular, rather thin, equivalve, nearly equilateral; valves ten-ribbed, ribs rather broad, but little raised, with the grooves finely ridged, left valve ash-fulvous, sprinkled with black dots, right valve yellowish, brown-dotted to-wards the umbo.

Born, Mus. Cies. Vindobonensis, pl. 6. f. 3. Hab. Mediterranean.

This is doubtless the same species as Lamarck's *P. sulcatus*, though he has omitted any reference to Born. It approximates hard upon *P. gluber*.

Species 51. (Mus. Cuming.)

Pecten Magellanicus. Pect. testă orbigulari, subaquilaterali, paululum hiante, inaquiodiri, sinistră convexă, tumidiusculă, purpurascente-rubră, destră multa planiore, albidă, ambabus creberrina radiatim scubro-striatis, umbonibus violaceis.

THE MAGELLAN PECTEN. Shell orbicular, nearly equilateral, a little gaping, inequivalve, left valve convex, rather swollen, purple-red, right valve much flatter, whitish, total very closely radiately rough-striated, unabous violes.

Ostrea Magellanica, Gmelin, Syst. Nat. p. 3317.

Pecien Magellantone, Lamerck.

Hall Ranks of Newfoundland.

The same of this species suggested by a wrong locality, bould be changed, were there and considerations on the subject of some malature which forbid it.





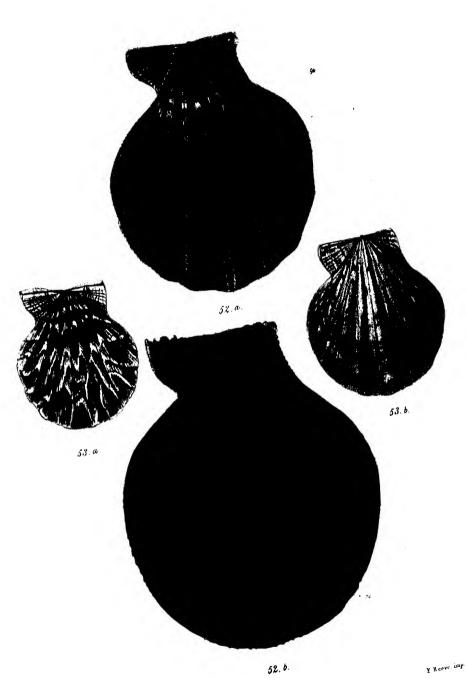


PLATE XIV.

Species 52. (Fig. va, b, Mus. Cuming.)

Pecten Islandious. Pect. testa ovali subaltiore quam longa, inaquilaterali, subaquivalvi, nunc compressa, nunc tumidiuscula, liris numerosis squamulatis, interdum prope marginem duplicatis, dense radiata, interdum obsolete rude costata; valva sinistra plus minus intense purpurea vel fulvo-ruhida, dextra pallidiore; auriculis valde inaqualibus.

THE ICELAND PECTEN. Shell oval, rather higher than long, inequilateral, nearly equivalve, now compressed, now rather swollen, thickly radiated with squamulate ridges, which are sometimes duplicate near the margin, sometimes obsoletely rudely ribbed; left valve more or less deep purple or fulvous-red, right valve palar; auricles very unequal.

Ostrea Islandica, Müller, Zoologia Danica, prod. No. 2990.

Pecten Islandicus, Chemnitz.

Ostrea cinnabarina, Born.

Hab. Northern Seas.

This well-known northern species varies extremely. The specimen represented at Fig. 52 a, which is swollen and ribbed, with the ridges rather sharply squamulate, is from Greenland. That at Fig. 52 δ , which is the more common state of the species, is from Iceland.

Species 53. (Fig. a, b, Mus. Cuming.)

Pecten Glaben. Pect testă orbiculari, aquilaterati, auriculis subgrandibus, aquicalvi, decemeostată et striată, costis subdistantibus, alternis sape minus prominentibus; indică sinistră cinereă, nigro alloque variegată, aut luteă, aut variă, dextră pallidiore, umbanem versus fusco-punctată.

The smooth Peoren. Shell orbicular, equilateral, auricles rather large, equivalve, ten-ribbed and striated, ribs rather distant, the alternate ribs often less prominent; left valve ash-colour, variegated with black and white, or yellow, or various, right valve paler, dotted with brown towards the umboes.

Ostrea glabra, Linnæus, Syst. Nat. p. 1146.

Pecten glaber, Chemuitz.

Pecten flavidulus, griseus, and virgo, Lamarck.

Ostrea citrina and rustica, Poli.

An varietates? Ostrea lutea, flavescens, aurantia, modesta, and depressa, Gmelin.

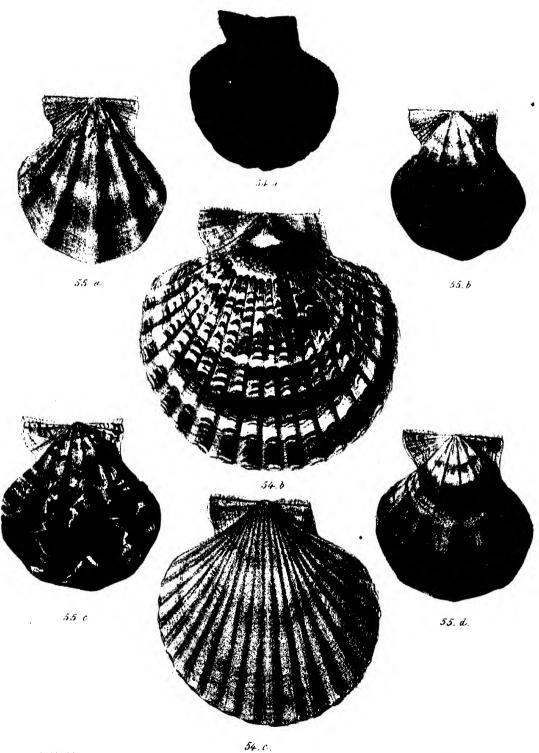
Hab. Mediterranean.

Extremely variable in colouring, but differing little in sculpture, and not at all in form.

February, 1

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PLATE XV.

Species 54. (Fig. a, b, c, Mus. Cuming.)

Pecten opercularis. Pect. testá orbiculari, aquilaterali, subaquivalvi, ventricosá, octocostatá et striatá, striis interdum vabrosis, albidá rufo variegatá, aut lutescente, unt intense purpureá, valvá dextrá pallidiore: auriculis subaqualibus.

THE OPERCULAR PECTEN. Shell orbicular, equilateral, nearly equivalve, ventricose, eight-ribbed and striated, strice sometimes scabrous, whitish, variegated with red, or yellowish, or deep purple, right valve paler; auricles nearly equal.

Ostrea opercularis, Linnaus, Syst. Nat. (12th edit.) p. 1147.

Ostrea dubia, elegans, versicolor, radiata, and regia, Gmelin.

Hab. Seas of Europe.

The three specimens here figured of this well-known species represent the extreme variations of colour.

Species 55. (Fig. a to d, Mus. Cuming.)

Pecten proteus. Pect. testá subquadrato-orbiculari, tenniculá, aquilaterali, subaquivalvi, quinquecostatá et striatá, costis tumidiusculis, parum elevatis, remotis, griseá albo variegatá, aut·luteá, aut rufá, out violaceá, valvá dextrá pallidiore, fusco interdum punctatá; auriculis subaqualibus.

THE PROTEAN PECTEN. Shell somewhat quadrately orbicular, rather thin, equilateral, nearly equivalve, five-ribbed and striated, ribs rather swollen, but little raised, distant, grey, variegated with white, or yellow, or red, or violet, right valve paler, sometimes dotted with brown; auricles nearly equal.

Solander, Sowerby, Thesaurus Conch. vol. i. p. 59.

Pecten discors, seu disconveniens, Chemnitz.

Hab. Mediterranean.

Though closely allied to *P. glaber*, these have nevertheless a distinctive character, especially in being thin and only five-ribbed.

February, 1853.



Pecten , Pt.XVI.

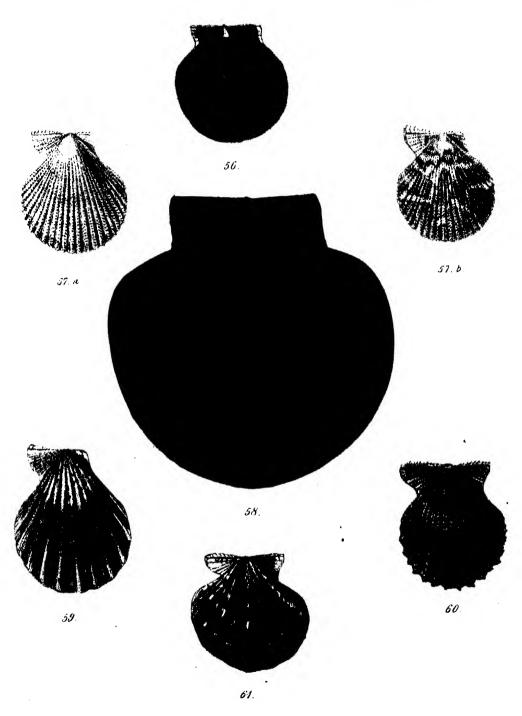


PLATE XVI.

Species 56. (Mus. Cuming.)

PECTEN PSEUDAMUSIUM. Pect. testá rotundatá, tenui, compressá, subæquilaterali, æquivalvi, valvá sinistrá radiatim striatá, livido-cinereá, rufo-fusco et fulvo maculatá, valvá dextrá concentricè striatá pallidiore.

THE FALSE-COMPASS PECTEN. Shell rounded, thin, compressed, nearly equilateral, equivalve, left valve radiately striated, livid-ash colour, blotched with fulvous and red-brown, right valve concentrically striated, paler.

KLEIN, Meth. Ost. p. 134. pl. 9. f. 31.

Pecten exoticus, Chemnitz.

Ostrea hybrida, Gmelin.

Hab. West Africa.

The left valve of this species is striated radiately, and the right valve concentrically.

Species 57. (Fig. a, b, Mus. Cuming.)

Pecten pseudo-imma. Pect. testá suborbiculari, inæquilaterali, auriculis valde inæqualibus, æquivalvi, subventricosá, radiatim crebricostatá, costis septem et viginti, hic illic subliratis, ubique acutè squamatis; aurantiá, alho umbones versus maculatá, interdum luteá.

THE FALSE-FILE PECTEN. Shell nearly orbicular, inequilateral, cars very unequal, equivalve, a little ventricose, radiately closely ribbed, ribs seven-and-twenty in number, here and there slightly ridged, everywhere sharply scaled; orange, spotted towards the umboes with white, sometimes yellow.

SOWERBY, Thesaurus Conch. vol. i. p. 78. pl. 20. f. 285. Hab. Jacon, Island of Bohol, Philippines; Cuming.

A delicately-coloured species, rayed with numerous close-set, sharply-scaled ribs.

Species 58. (Mus. Cuming.)

Pecten Laurentii. Pect. testă suberbiculari, aquilaterati, tenuiculă, valde inaquivalvi, valvă sinistră plamatată, subflexuosă, radiatim striată, purpureo-rufă, dextră convexă, albidă, purpurascente pallide radiată, intus tenuicostată, costis ad quadraginți, binis.

LAURENCE'S PECTEN. Shell nearly orbicular, equilateral, rather thin, very inequivalve, left valve flattened, rather flexuous, radiately striated, purple-red, right valve convex, whitish, faintly rayed with light purple, finely ribbed within, ribs about forty, disposed in pairs.

GMELIN, Syst. Nat. p. 3317.

Hab. China.

Allied to P. ziczac, but well distinguished by its thinner and subflexuous structure, as well as in colouring.

Species 59. (Mus. Cuming.)

Pecten Luculenta. Pect. testá subtrigoná, altiore quam longá, subcompressá, inæquilaterali, auriculis valde inæqualibus, æquivalvi, radiotim liratá, et decemcostatá, costis subacutis, irregularibus, aureo-lutescente, nigricante-fusco in sulcis profusè punctatá.

THE BRIGHT PECTEN. Shell somewhat triangular, higher than long, rather compressed, inequilateral, ears very unequal, equivalve, radiately ridged and ten-ribbed, ribs rather sharp, irregular, golden-yellow, profusely dotted within the grooves with blackish-brown.

Hab. Bathurst Island, North Australia.

This pretty species from Australia is nearest allied to P. pes-felis and tigris.

Species 60. (Mus. Cuming.)

Pecten Muscosus. Pect. testa subglobosa, æquitaterali, auriculis subelongato-productis, æquivalvi, valvis ventricosis, octodecimcostatis, costis sulcivque densè minutè scabrosis, costis squamis erectis medio subirregulariter armatis; fulvo-rufa.

THE MOSSY PECTEN. Shell somewhat globose, equilateral, auricles rather elongately produced, equivalve, valves ventricose, eighteen-ribbed, ribs and grooves thickly minutely seabrous, somewhat irregularly armed down the middle with erect scales; fulvous-red.

Woop, Index Testaceologicus, Supp. pl. 2. f. 2.

Hab. --- ?

This appears to be a very good species. Both valves are alike, globosely ventricose, and prominently scaled.

Species 61. (Mus. Cuming.)

Pecten flexuosus. Pect. testá flabellatim rotundatá, plus minus ventricosá, aquilaterali, subaquivalvi, valvis radiatim striatis, sinistrá decemcostatá, costis alternatim majoribus, funco-albidá, nigro-fusco promiscuè maculatá, dextrá decemcostatá, costis binis, æqualibus, albá, sparsim punctatá.

THE FLEXUOUS PECTEN. Shell fan-like rounded, more or less ventricose, equilateral, nearly equivalve, valves radiately striated, left valve ten-ribbed, ribs alternately larger, smoky-white, promiscuously blotched with black-brown, right valve ten-ribbed, ribs equal, disposed in pairs.

Ostrea flexuosa, Poli.

. Pecten Isabella, Lamarck.

Hab. Mediterranean.

Allied to P. glaber, of the same locality.



PLATE XVII.

Species 62. (Mus. Cuming.)

Pecten Darwinii. Pect. testā orbiculari, tenuiculā, aquivalvi, aquitaterali, sexdecimcostatā, costis subaugustis, usque ad umbones distinctis, versus marginem obsoletic obluse tenue lirato-squamatis, interstitiis obsoletius lirato-squamatis; rosaceo-albidā, liris versus marginem purpurascente-roseis; auriculis grandibus, subaqualibus.

DARWIN'S PECTEN. Shell orbicular, rather thin, equivalve, equilateral, sixteen-ribbed, ribs rather narrow, distinctly formed to the umboes, obsoletely obtusely finely scale-ridged towards the margin, interstices more obsoletely scale-ridged; pink-white, ridges purple-rose towards the margin; cars large, nearly equal. Hab. Santa Cruz, Patagonia; Darwin.

A characteristic species, collected some years ago, at the above-named locality, by Mr. Darwin, but not hitherto described.

Species 63. (Fig. a, b, c, Mus. Cuming.)

Pecten pallium. Pecl. testă orbiculari, equivalvi, subequilalerali, crassiusculă, compressă, costis duodecim ad quatuordecim radiată, costis tripartitis, densissime et pulcherrime imbricato-squamatis, squamis plus minus lamellatis, erectis; costarum interstitiis squamato-liratis; intense aurantio-miniacea, violacea, aut purpureo-rufă, albo plus minus concentrice undato-strigată, intus alba, marginem versus colore tinctă; auriculis inæqualibus, verrucoso-squamatis.

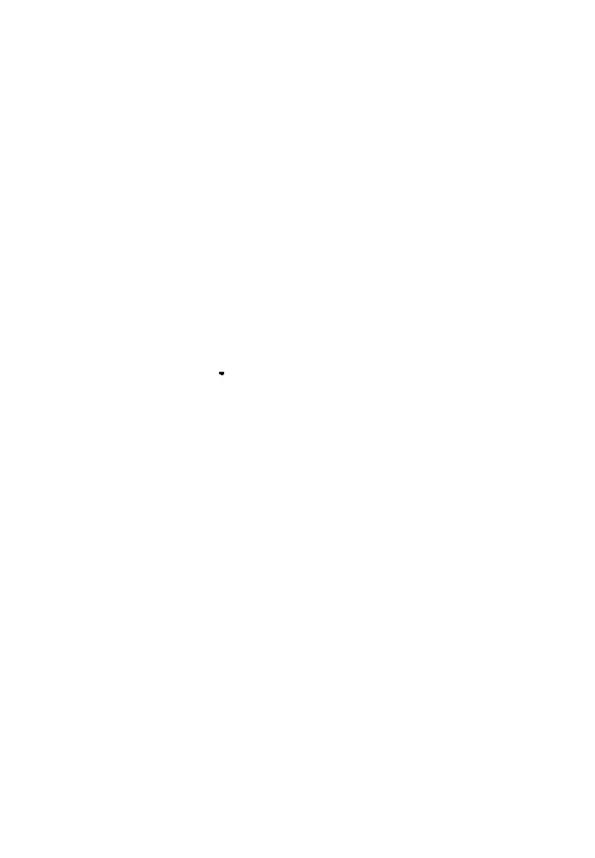
THE MANTLE PECTEN. Shell orbicular, equivalve, nearly equilateral, rather thick, compressed, rayed with twelve to fourteen ribs, which are tripartite, and very densely and beautifully imbricately scaled, the scales being more or less lamellated and creet; interstices between the ribs scale-ridged; deep orange-vermilion, or violet, or purple-red, more or less checkered with white concentric wave-streaks, interior white, more or less stained with colour towards the margin; ears unequal, wart-like squamate.

Ostrea pallium, Linnæus, Syst. Nat. (12th edit.) p. 1145.

Pecten pallium, Lamarck.

Hab. Pacific and Eastern Seas.

The brilliant orange-vermilion specimen here figured was collected by Mr. Cuming at Lord Hood's Island, the violet specimen at the Mauritius, and the purple-red at the Philippine Islands.



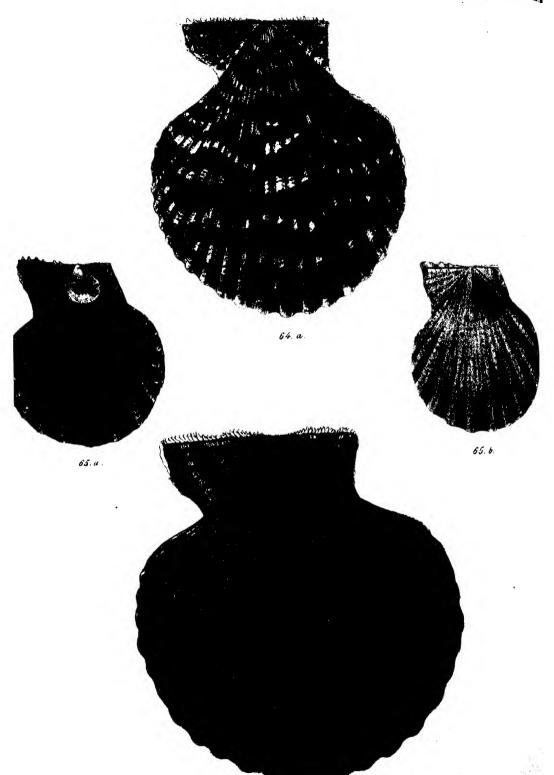


PLATE XVIII.

Species 64. (Fig. a, b, Mus. Cuming.)

PECTEN CRASSICOSTATUS. Pect. testá subrotundatá, interdum altiore quam longa, aut ventricoel aut compressa, aquivalvi, subaquilaterali, costis quatuor et viginti radiată, costis obscure annulatis, lateralibus squamatis, interstitiis lævibus; carneo-alba, pallide rufo-variegată, aut purourascente, immaculată; auriculis valde inaqualibus, densè squamatis.

THE THICK-RIBBED PECTEN. Shell subrotundate, sometimes higher than long, either ventricose or compressed, equivalve, nearly equilateral, rayed with twenty-four ribs, which are obscurely ringed, lateral ribs squamate, interstices smooth; flesh-white, variegated with pale red, or purple, unspotted; ears very unequal, densely scaled.

Sowerby, Thesaurus Conch. vol. i. p. 75. pl. 15 and 17. f. 111 and 152.

Hab. --- ?

The shells here figured differ conspicuously in their general aspect, but are merely different states of the same species.

Species 65. (Fig.a, b, Mus. Cuming.)

PECTEN SQUAMOSUS. Pect. testá subovali, sæpè altiore

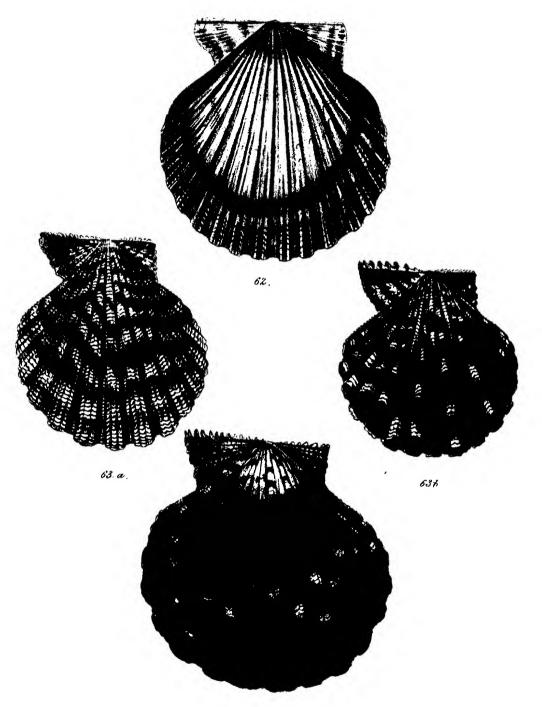
quam longa, subæquivalvi, subirregulari, tennicula, plus minus compressá, costis duodecim ad octodecim subsquamatis planatis ferè obsoletis lirisque plurimis tenuibus radiatá, versus umbones plano-compressá; auriculis valde inæqualibus; colore variá, nunc purpureofuscă, pallide undato-variegată, nunc luteâ vel aurantiâ, albo circa umbones sæpè peculiariter fulguratá.

THE SQUAMOSE PECTEN. Shell somewhat oval, often higher than long, nearly equivalve, rather irregular, rather thin, more or less compressed, rayed with twelve to eighteen subsquamate flattened almost obsolete ribs and numerous fine ridges, flatly compressed towards the umboes; auricles very unequal; colour various, sometimes purple-brown, faintly wave-variegated, sometimes yellow or orange, frequently delicately lightning-marked with white round the umboes.

GMELIN, Syst. Nat. Lister, Hist. Conch. pl. 184. f. 21. Hab. Philippine Islands; Cuming.

Although varying remarkably in colour, the faint scratchlike white lines round the umboes and on the cars are very characteristic when present. The thin flattened obsoletely scaled ribs and ridges are peculiar and constant. At Plate XXI. is figured a brilliant orange variety of this species.





63.c.



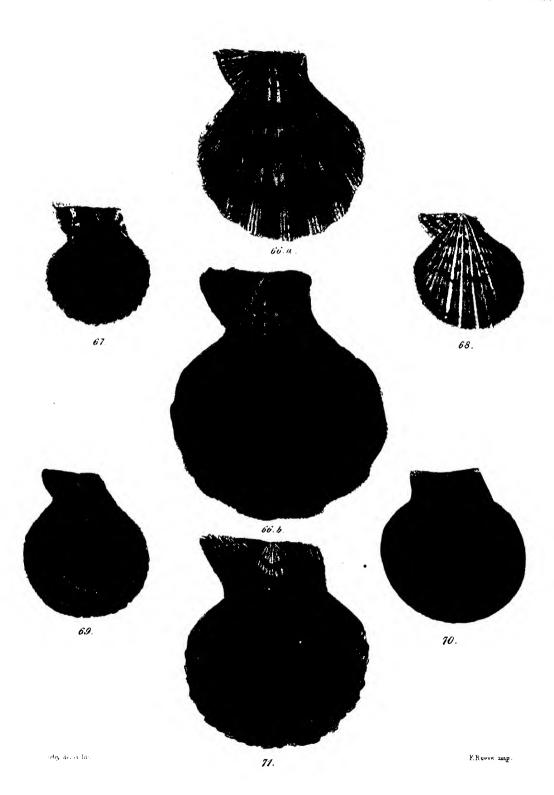


PLATE XIX.

Species 66. (Fig. a, b, Mus. Cuming.)

Pecten pes-felis. Pect. testá trigono-ovali, altiore quam longá, æquilaterali, subæquivalvi, costis rudibus obsoletè nodosis subdistantibus octoradiatá, costis interstitisque tenuigranosis et liratis; fusco-rufá, luteo sparsim punctatá et undato-notatá; valvá dextrá pullidiore; auriculis valde inæqualibus, verrucoso-liratis.

THE CAT'S-FOOT PECTEN. Shell triangularly oval, higher than long, equilateral, nearly equivalve, rayed with eight rather distant rude obsoletely noduled ribs; ribs and interstices finely grained and ridged; brownred, sparingly dotted and wave-marked with yellow; right valve paler; ears very unequal, wart-ridged.

Ostrea pes-felis, Linnæus, Syst. Nat. (12th edit.) p. 1146.
Ostrea elongata. Born.

Pecten pes-felis, Lamurck.

Pecten Bornii, Payraudeau.

Hab. Mediterranean.

The primary ribs are the same in all varieties of this species, but there are one or two ribs more than are here mentioned formed at the sides in some specimens.

Species 67. (Mus. Cuming.)

Pecten splendidulus. Pect. lestá subtrigono-ovali, compressá, ad latera angulatá, auriculis valde inæqualibus, obliquè productis, tenuè squamoso-liratis, æquivalvá, costis rotundatis ad quinque et viginti muricato-squamatis concinnè radiatá, squamis lateralibus prominentioribus; intensè sanguineo-rufá, rosacco-albo ad auriculas et ad latera plus minus promiscuè fasciatá.

THE SPLENDID PECTEN. Shell somewhat triangularly oval, compressed, angled at the sides; ears very unequal, obliquely produced thinly scale-ridged; equivalve, neatly rayed with twenty-five prickly scaled rounded ribs, lateral scales the more prominent; deep blood-red, more or less promiscuously banded at the ears and at the sides with pink-white.

Sowensy, Thesaurus Conch. vol. i. p. 76. pl. 20. f. 246. Hab. Singapore.

The pale blotches on the ears and sides of this species are characteristic.

Species 68. (Mus. Cuming.)

Pecten obnatus. Pect. testá subtrigono-ovatá, compressá, interdum subdistortá, inæquilaterali, æquivalvi,
costis lirisque numerosis angustis, fortibus, irregularibus, granulatis, peculiariter crebriradiatá; lutescentealbá, valvá sinistrá purpureo-rufo profusè maculatá,
liris duabus vel tribus centralibus ferè immaculatis,
valvá dextrá purpurascente versus marginem tinctá.

THE ORNAMENTED PECTEN. Shell somewhat triangularly ovate, compressed, sometimes a little distorted, inequilateral, equivalve, peculiarly closely rayed with numerous irregular, strong, narrow, granuled ridges; yellowish-white, left valve profusely spotted with purple-red, two or three of the central ridges being almost unspotted, right valve tinged with purple towards the margin.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vii. p. 150.

Hab. Barbadoes.

This is a very characteristic species, remarkable for the strong laterally compressed irregular development of the ribs and ridges, and in the distribution of colouring matter, which generally leaves two or three of the central ribs more or less without colour. M. Deshayes has inadvertently repeated this name in reference to a fossil species.

Species 69. (Mus. Cuming.)

Pecten Chuentatus. Pect. testá subtrigono-orbiculari, altiore quam longá, æquilaterali, æquivalvi, costis ad septem et viginti, plano-convexis, confertis, centralibus latioribus, obsoleté arcuatim striatis radiatá; intensé coccineo-rufá, albido hic illic sparsim maculatá; auriculis valdè inæqualibus, obliquis, posticis brevissimis.

THE BLOOD-RED PECTEN. Shell somewhat triangularly orbicular, higher than long, equilateral, equivalve, rayed with about twenty-seven flatly convex close-set ribs, the central being regularly broader; deep scarlet-red, sparingly spotted here and there with white; ears very unequal, oblique, posterior ears very short.

Pecten sanguineus, Sowerby (not of Gmelin). Hab. Cape Upstart, North Australia; Jukes.

The shell noticed by Mr. Sowerby as a dark variety of

this species, and represented in the plate which follows Fig. 76, is certainly distinct.

Species 70. (Mus. Cuming.)

Pecten obliteratus. Pect. testá orbiculari, tenuiculá, compressá, utrinque paululum hiante, æquilaterali, æquivalvi, extus lævigatá, nitente, intus creberrimè radiatim liratá; purpurascente-sanguineá, radiatá, valvá dextrá pallidiore.

THE WORN PECTEN. Shell orbicular, rather thin, compressed, a little gaping at the sides, equilateral, equivalve, smooth and shining without, very closely radiately ribbed within; purplish-blood colour, right valve paler.

Ostrea obliterata, Linnæus, Syst. Nat. (12th edit.) p. 1146.

Pecten obliteratus, Lamarck.

Hab. China.

Allied to P. Laurentii and pleuronectes, but uniformly distinct from either of those species.

Species 71. (Mus. Cuming.)

Pecten Lividus. Pect. testá subquadrato-ovatá, altiorquam longá, subirregulari, æquilaterali, æquivalvi, costis creberrimè foliaceo-squamatis decem aut duodecim cum minoribus interpositis irregulariter radiatá, interstitiis liratis; cupreo-fuscá, costis majoribus luteis, lineis tenuibus fulgetris albis circa umbones; auriculis inæqualibus, grandibus, obliquis.

The LIVID Pecten. Shell somewhat squarely ovate, higher than long, rather irregular, equilateral, equivalve, irregularly rayed with ten or twelve very closely foliaceous scaled ribs, with small ribs intervening, interstices ribbed; coppery-brown, the larger ribs yellow, with fine whitish zigzag lines around the numboes; cars unequal, large, oblique.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vii. p. 154.

This species has a close affinity with *P. squamosus*, although the sculpture is so much more strongly developed.



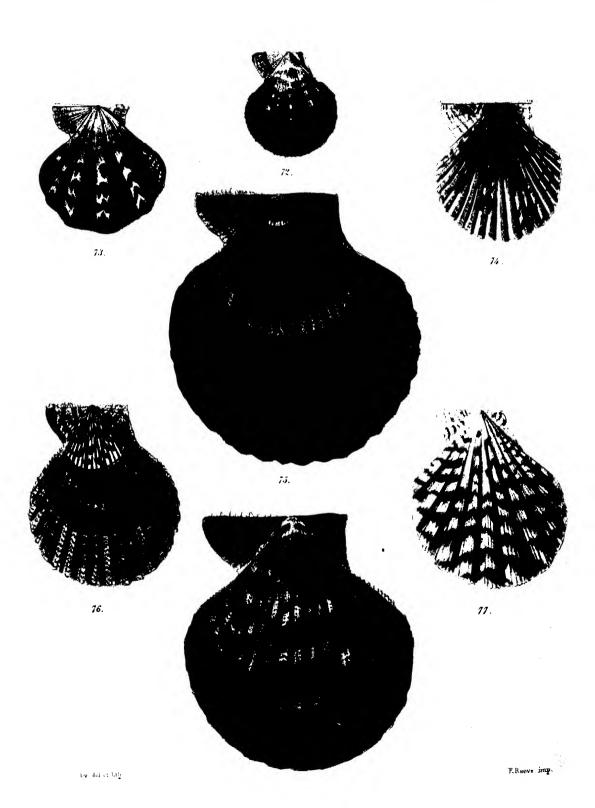


PLATE XX.

Species 72. (Mus. Cuming.)

Pecten Bruel. Pect. testá subtrigono-orbiculari, subcontortá, æquilaterali, æquivalvi, profusè irregulariter squamato-costatá et liratá; fusco-purpureá, albo versus umbonem sparsim tinctá, valvá dextrá pallidiore, costis lirisque parviusculis; auriculis valdè inæqualibus.

BRUE'S PECTEN. Shell somewhat triangularly orbicular, a little twisted, equilateral, equivalve, profusely irregularly squamately ribbed and ridged; brown-purple, sparingly blotched with white towards the umboes, right valve paler, with the ribs and ridges rather smaller; ears very unequal.

PAYRAUDEAU, Cat. Moll. de Corse, p. 78. Hab. Mediterranean.

Of somewhat contorted growth, very closely irregularly rayed with scaly ribs and ridges.

Species 73. (Mus. Cuming.)

Pecten undulatus. Pect. testá trigono-ovatá, æquilaterati, subæquivalvi, subtilissimè granulosá, costis quinque ad sex subdistantibus radiatá, costis valvæ subnodosis, interstitiis latis, tenuitiratis, costis valvæ dextræ latis et tenuitiratis, interstitiis lævioribus; valvá sinistrá coccineo-rufá, albo sparsim maculatá, intus purpureo-roseá, dextrá albá, versus umbonem purpureo-roseá; auriculis valdè inæqualibus.

THE WAVED PECTEN. Shell triangularly ovate, equilateral, nearly equivalve, very finely granuled, rayed with five to six rather distant ribs, ribs of the left valve subnodose, the interstices being broad and finely ridged, ribs of the right valve broad and finely ridged, the interstices being smoother; left valve scarlet-red, sparingly spotted with white, purple-rose within, right valve white, purple-rose towards the umbo; ears very unequal.

Sowerby, Thesaurus Conch. vol. i. p. 60. pl. 19. f. 206 and 207.

Hab. Mediterranean.

It is doubtful whether this is anything more than a variety of that extremely variable and widely distributed European species, P. Danicus.

Species 74. (Mus. Cuming.)

Pecten Singaporinus. Pect. testá orbiculari, valdè compressá, æquilaterali, æquivalvi, costis ad duabus et viginti subangustis rotundatis elevatis radiatá, interstitiis excavatis, pulcherrimè concentrice striatis; albidá vel rufescente-aurantiá, cinereo-nigricante plus minus nebulatá, costarum interstitiis excavatis plurimum albis; auriculis subgrandibus, tenuibus, inæqualibus.

THE SINGAPORE PECTEN. Shell orbicular, very compressed, equilateral, equivalve, rayed by about twenty-two rather narrow rounded raised ribs, interstices excavated, very beautifully concentrically striated; whitish or reddish-orange, more or less clouded with ash-black, interstices between the ribs excavated, mostly white; cars rather large, thin, unequal.

Sowerby, Thesaurus Conch. vol. i. p. 74. pl. 13. f. 55, and pl. 14. f. 71.

Hab. Singapore.

Remarkable for its compressed and very regular growth, strongly and numerously ribbed, with the interstices neatly closely striated across.

Species 75. (Mus. Cuming.)

Pecten asperrimus. Pect. testá tenniculá, suborbiculari, subæquilaterali, æquivalvi, costis quinque et viginti angulatis, confertis, undique subtiliter scabroso-liratis radiatá, fusco-rufèscente, immaculatá; auriculis inæqualibus, obliquis.

THE VERY ROUGH PECTEN. Shell rather thin, suborbicular, nearly equilateral, equivalve, rayed with twentyfive close-set angled ribs, finely scale-ridged throughout, brown-red, unspotted; ears unequal, oblique.

LAMARCK, Anim. sans vert (Deshayes' edit.) vol. vii. p. 145. Hab. Van Diemen's Land.

The ribs are broad at the base, and adjoin without any intermediate groove. They are then angled to a keel at the summit, and are finely scale-ridged all over.

Species 76. (Mus. Cuming.)

PECTEN LENTIGINOSUS. Pect. testá subtrigono-oblongá, altiore quam longá, compressiusculá, subæquilaterali, æquivafoi, costis angulatis foliaceo-squamatis ad duabus

et viginti radiată; albidă, nigro lentiginosă, umbonibus purpureo-rufis, intus livido-fumeă; auriculis inæqualibus.

THE FRECKLED PECTEN. Shell somewhat triangular-oblong, higher than long, rather compressed, nearly equilateral, equivalve, rayed with about twenty-two foliaceous-scaled angular ridges; whitish, freekled with black, umboes purple-red, interior of a livid smoky hue; ears unequal.

Hab. Island of Ticao, Philippines (under stones at low water); Cuming.

This is the shell figured and described by Mr. Sowerby as a variety of *P. sanguineus*, but it differs from that species in the following important particulars. The posterior ears are less obliquely shortened, and the ribs are less numerous, while they are angled and foliaceous-scaled.

Species 77. (Mus. Cuming.)

Pecten tignis. Pect. testá oblique subtrigoná, tenuiculá, inæquilaterali, vix æquivalvá, valvá dextrá convexivre; decemcostatá, costis interstitiisque undique radiatim tiratis et subtilissime granulatis; crocco-albá, valvá sinistrá rufo-nigro concentrice undato-strigatá, dextrá sparsim maculatá, umbonibus croceis; auriculis valde inæqualibus.

THE TIGER PECTEN. Shell obliquely subtriangular, rather thin, inequilateral, scarcely equivalve, the right valve being more convex, ten-ribbed; ribs and interstices radiately ridged and very finely granulated throughout; yellow-white, left valve concentrically wave-streaked with red-black, right valve sparingly spotted, umboes vellow; ears unequal.

LAMARCK, Anim. sans vert. (Deshayes' edit.)vol. vii. p. 141. Hab. Philippine Islands; Cuming.

The yellow colouring which characterizes this species is more or less strongly stained through into the interior.

Species 78. (Mus. Cuming.)

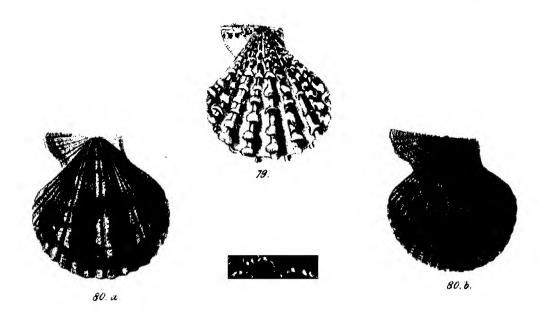
Pecten Prunum. Pect. testá suborbiculari, subcompressá, aquilaterali, aquivalvá, costis liratis octodecim, undique pulcherrime foliaceo-squamatis, radiatá; purpurascente-carneá, albo hic illic sparsim lentiginosá; auriculis inaqualibus, nitide et profuse squamatis.

THE PLUM-COLOURED PECTEN. Shell nearly orbicular, rather compressed, equilateral, equivalve, rayed with eighteen ridged ribs, which are very beautifully foliaceous-scaled throughout; purplish-flesh, sparingly freekled here and there with white; ears unequal, neatly and profusely scaled.

Hab. Moreton Bay, Australia; Strange.

A very elaborately sculptured species, allied to *P. as- perrimus*, from which it differs chiefly in the ribs being broader and more rounded, more highly scaled, and fewer in number. It is delicately tinged throughout with a plum-like bloom.

Pecten, Pl. XXI.



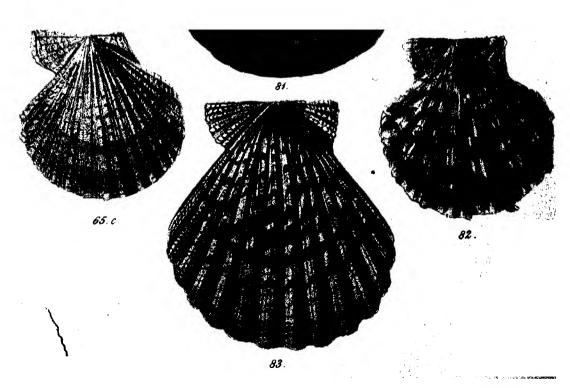


PLATE XXI.

Species 79. (Mus. Cuming.)

Pecten imbricatus. Pect. testá subtrigono-ovatá, subaquilaterali, auriculis valdè inaqualibus, inaquivalvi,
valvá dextrá convexiore, valvis ambabus novemcostalis,
costis subangustis, tuberculis peculiariter globoso-fornicatis ornatis; opaco-albá, valvá sinistrá maculis perpaucis intensè roseis ornatá, valvarum facie interná
croceá, prope marginem violaceá.

THE IMBRICATED PECTEN. Shell somewhat triangularly ovate, nearly equilateral, cars very unequal, inequivalve, right valve more convex, both valves nineribbed, ribs rather narrow, ornamented with peculiarly globosely-arched tubercles; opake-white, left valve ornamented with a few deep rose spots, interior of the valves saffron-yellow, violet towards the margin.

Ostrea imbricata, Gmelin, Syst. Nat. p. 3318.

An eadem? Ostrea sauciata, Ginclin.

Hab. Red Sea.

Remarkably characterized by the swollen vaulted scales gracefully drooping over towards the margin.

Species 80. (Fig. a, b, Mus. Cuming.)

Pecten Layardi. Pect. testá suborbiculari, auriculis inaqualibus, obliquis, æquilaterali, subæquivalvi, valvá sinistrá subconvexiore, valvis costis duabus et viginti, ad latera subsquamatis, radiatis; croceá aut violaceá, saturalè hic illic marmoratá.

LAYABD'S PECTEN. Shell nearly orbicular, ears unequal, oblique, equilateral, nearly equivalve, left valve rather the more convex, valves rayed with twenty-two ribs a little squamate at the sides; saffron-yellow or violet, marbled here and there darker.

Hab. Ceylon; Layard.

An interesting new species, brought from Ceylon by Mr. Layard, after whom, at the request of Mr. Cuming, I have the honour to name it.

Species 81. (Mus. Cuming.)

Pecten senatobius. Pect. testa orbiculari, subdepressa, æquilaterali, subæquivalvi, valva dextra subpland, velvis costis viginti ad quatuor et viginti obtusè serratis confertis radiatis; miniaceo-rufă, albo nigro-nebulato hic illic marmorată; auriculis inequalibus.

The senator's Pecten. Shell orbicular, somewhat depressed, equilateral, nearly equivalve, right valve rather flat, valves rayed by twenty to twenty-four close-set obtusely-serrated ribs; vermilion-red, marbled here and there with black-clouded white; ears unequal.

Ostrea senatoria, Gmelin, Syst. Nat. p. 3327.

Ostrea porphyrea, Gmelin.

Pallium porphyreum, Chemnitz.

Hab. Moluccas, etc.

A richly coloured species, of simple character and extremely symmetrical growth.

Species 65. (Fig. c, Mus. Cuming.)

A richly coloured orange variety of P. squamosus, referred to at Pl. XVIII.

Species 82. (Mus. Cuming.)

Pecten squamatus. Pect. testā subtrigono-orbiculari, tenui, irregulari, inæquilaterali, subæquivalvi, compressă, valvis costis septem aut pluribus, distanter squamatis, radiatā, costarum interstitiis plus minus latis, obscurè liratis; albidā, fuscescente-carneo tinctā; auriculis subæqualibus.

THE SQUAMATE PECTEN. Shell somewhat triangularly orbicular, thin, irregular, inequilateral, nearly equivalve, compressed, valves rayed with seven or more distantly scaled ribs, interstices between the ribs more or less broad, obscurely ridged; whitish, stained with light brown-fiesh; ears nearly equal.

Ostrea squamata, Gmelin, Syst. Nat. p. 3329.

Hab. St. Nicolas, Island of Zebu, Philippines; Cuming.

The growth of this species is very irregular, the ridges in the under valve being partially developed here and there into scaled ribs.

Species 83. (Mus. Cuming.)

PECTEN BADULA. Pect. testá subtrigono-ovatá, alticre

quam longă, crassiusculă, compressă, undique peculiariter scabră, concentrice undato-lineată, æquilaterali, subæquivalvi, valvă dextră convexiore, valvis costis sulcatis duodecim fortiter radiatis; flavicante, valvă sinistră rufo-nigro maculată.

THE GRATER PECTEN. Shell somewhat triangularly ovate, higher than long, rather thick, compressed, peculiarly rough throughout, concentrically wavelined, equilateral, nearly equivalve, right valve the

more convex, valves strongly rayed with twelve grooved ribs; yellowish, left valve spotted with redblack.

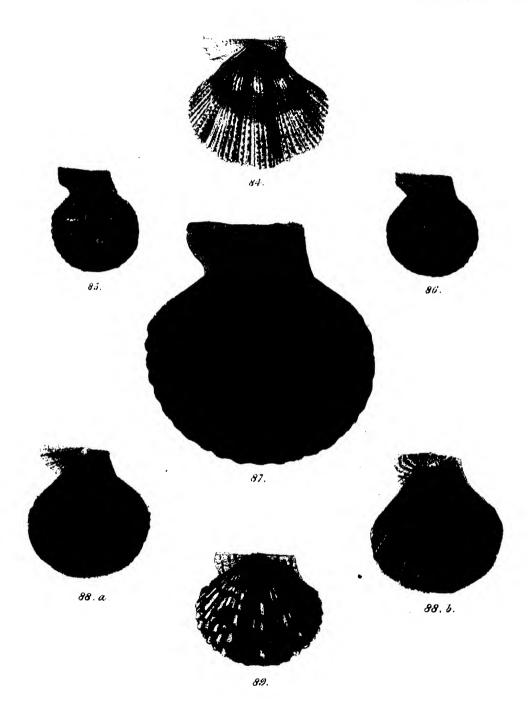
Ostrea radula, Linnæus, Syst. Nat. p. 1145.
Ostrea maculosa? Gmelin.

Hab. Philippine Islands; Cuming.

The left valve of this well-known species is peculiarly compressed at the umbo.



Pecten, Pl. XXII.



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PLATE XXII.

Species 84. (Mus. Cuming.)

Pecten roseo-punctatus. Pect. testá subtrigono-oblongá, flabelliformi, æquilaterali, æquivalvi, valvis radialim densè acutè liratis, costis tumidis subtuberculatis
obsoletè radiatá, undique sub lente minutissimè serratá;
albá, valvá sinistrá pulcherrimè roseo-punctalá; anriculis valdè inæqualibus.

THE ROSE-DOTTED PECTEN. Shell somewhat triangularly oblong, fan-shaped, equilateral, equivalve, valves radiately densely sharply ridged, obsoletely rayed with five slightly tuberculated swollen ribs, beneath the lens very minutely serrated; white, left valve very-heautifully dotted with rose; ears very unequal. Hab. Moluccas.

A delicate marble-white shell, of somewhat rude growth, thickly dotted on the upper valve with bright rose.

Species 85. (Mus. Cuming.)

Pecten funebris. Pect. testă subtrigono-ovală, altiore quam lonyă, subæquilaterali, æquivalvi, valvis costis quinque et viginti, undique irregulariter squamatis, radiatis; flavescente-nigricante, vel intense fumeo-fuscă, alto partim maculată; auriculis valde inæqualibus.

The Mourning Pecten. Shell somewhat triangularly ovate, higher than long, nearly equilateral, equivalve, valves rayed with five-and-twenty ribs, regularly scaled throughout; yellowish-black or deep smokybrown, partially mottled with white; cars very unequal.

Hab. Bathurst, Australia.

Beautifully characterized by its very neat and profuse arrangement of scales.

Species 86. (Mus. Cuming.)

Pecten Miniaceus. Pect. testă mbtrigono-ovată, gibbosiusculă, æquilaterali, æquivalvi, valvis costis octo et viginti obluse serratis radiatis; intense miniacea, pallide sparsim marmorată; auriculis valde inæqualibus.

The vermilion Pecten. Shell somewhat triangularly ovate, rather gibbous, equilateral, equivalve, valves rayed with eight-and-twenty obtusely serrated ribs;

deep vermilion, sparingly faintly marbled; cars very unequal.

Hab.

A very richly-coloured species, with the ribs close-set, rather appressed, and bluntly serrated.

Species 87. (Mus. Cuming.)

Pecten ustulatus. Pect. testă trigono-orbiculari, crassiusculă, æquilaterali, requivalvi, valvis costis tribus ad quatuor et viginti obtuse distanter serratis radiatis: ustulato-rufă, versus umbones aurantiă; auriculis subæqualibus, tenuisquamatis.

THE SCORCHED PECTEN. Shell triangularly orbicular, rather thick, equilateral, equivalve, valves rayed with twenty-three to twenty-four obtusely distantly serrated ribs; burnt red, orange towards the umboes: ears nearly equal, finely scaled.

Hab. Australia.

A fine new species, of rather solid growth, simply characterized.

Species 88. (Fig. a, b, Mus. Cuning.)

Pecten Dieffenbachi. Pect. testá subtrigoná, prope umbones utrinque peculiariter impresso-plicatá, æquilaterali, subæquivalvi, valvis sæpè irregularibus, profusè radiatim lineatis et liralis, lineis lirisque undique angustè squamatis; rufescente-fuscá aut violaceá; auriculis valdè inæqualibus.

DIEFFENBACH'S PECTEN. Shell subtriangular, peculiarly impressly plicated on both sides near the umbocs, equilateral, nearly equivalve, valves often irregular, profusely radiately lineated and ridged, the lines and ridges everywhere narrowly squamate; reddish-brown or violet; ears very unequal.

Gray, App. Dieffenbach's New Zealand. Hab. New Zealand.

Distinguished among other characters by a peculiarly impressed flexuous growth beneath the front ear.

Species 89. (Mus. Cuming.)

PECTEN NUCLEUS. Pect. testa oblongo-orbiculari, crassi-

PECTEN.-PLATE XXII.

usculá, gibbosá, æquilaterali, subæquivalvi, viginti-costatá, costis valvæ sinistræ fortibus, elevatis, angustis, dextræ lutis, confertis, obtusis, valvá sinistrá cinereonigricante alboque marmoratá, dextrá albidá; auriculis brevibus, subæqualibus.

THE KERNEL PECTEN. Shell oblong-orbicular, rather thick, gibbous, equilateral, nearly equivalve, twentyribbed, ribs of the left valve strong, elevated, and narrow, of the right valve broad, close-set, and obtuse, left valve marbled with ash-black and white, right valve whitish; ears short, nearly equal.

Born, Mus. Vind. p. 107. pl. 7. f. 2. Hab. Cumana, Venezuela.

This appears to be always distinguishable from P. gib-bosus, though closely allied to it.



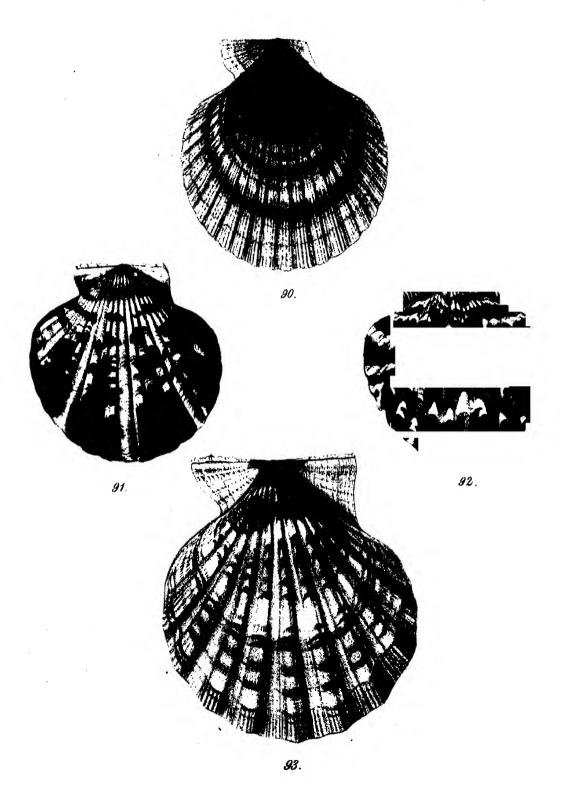


PLATE XXIII

Species 90. (Mus. Cuming.)

Pecten Rubidus. Pect. testă suborbiculari, tenuiculă, aquilaterali, inaquivalvi, valvă dextră planiore, valvis ambabus dense irregulariter costatis, sulcațis, et liratis; albă, liris subtiliter granulato-serratis, liris valva sinistra eximie roseis; auriculis valde inaqualibus.

THE RUDDY PECTEN. Shell somewhat orbicular, rather thin, equilateral, inequivalve, right valve the flatter, both valves densely irregularly ribbed, grooved, and ridged; white, ridges finely granulately serrated, ridges of the left valve delicate rose; cars very unequal.

HINDS, Zool. Voy. Sulphur, Moll. p. 61 pl. 17 f. 5.

Hab. Alashka, North-west America, at thirty-three fathoms; Hinds.

An extremely delicate and characteristic species, allied in some respects to *P. Islandicus*.

Species 91. (Mus. Cuming.)

Pecten Reevel. Pect. testá orbiculari, subæquilaterali, aquivalvi, viginti-costatá, costis latiusculis, elevatis, confertis, lineis concentricis minuté densissimè decussatis; albá, intensè carmineo et violascente tinctá et variegatá; auriculis æqualibus.

REEVE'S PECTEN. Shell orbicular, nearly equilateral, equivalve, twenty-ribbed, ribs rather broad, raised, close-set, minutely very thickly decussated with concentric lines; white, stained and variegated with deep carmine and violet; ears equal.

ADAMS, Moll. Voy. Samarang, p. 73. pl. 21. f. 10 a, b. Hab. China.

Peculiar in form and sculpture, and brilliantly variegated with crimson and violet.

Species 92. (Mus. Cuming.)

PECTEN SOLARIS. Pect. testá orbiculari, subflabelliformi,

æquilaterali, subæquivalvi, ad umbones et prope marginem compresså, valvis costis sexdecim ad octodecim radiatis, costis latiusculis, vix elevatis, ad latera plus minus obsoletis, striis concentricis ubique nitidè decussatis; albå, fusco-rubro variè tinctá et maculatá; auriculis æqualibus.

THE SUN PECTEN. Shell orbicular, somewhat fan-shaped, equilateral, nearly equivalve, compressed at the umbocs and near the margin, valves rayed with sixteen to eighteen ribs, ribs rather broad, but slightly raised, more or less obsolete at the sides, neatly decussated everywhere with concentric striæ; white, variously stained and mottled with brown-red; cars equal.

BORN, Mus. Cas. Vind. pl. 6. f. 4.

Hab. Macassar and China.

A peculiarly compressed species, variously painted but always with one idea of pattern.

Species 93. (Mus. Cuming.)

Pecten spectrum. Pect. testá orbiculari, subaltiore quam longá, tenuiculá, subirregulari, æquilaterali, æquivalvi, valvis lævigatis, aut sub lente minutissimè decussatá, decemcostatis, costis plus minus obsoletis et irregularibus; albidá, valvá sinistrá olivaceo-fusco pallidè tinctá, prope umbonem maculatá; auriculis grandibus, æqualibus.

THE GHOST PECTEN. Shell orbicular, rather higher than long, rather thin, somewhat irregular, equilateral, equivalve, valves smooth, or, beneath the lens, very minutely decussated, ten-ribbed, ribs more or less obsolete and irregular; whitish, left valve faintly stained with olive-brown, spotted near the umbo; ears large, equal.

Hab. Australia.

A broad-spread thin species, of irregular growth, indistinctly coloured except near the umbocs.



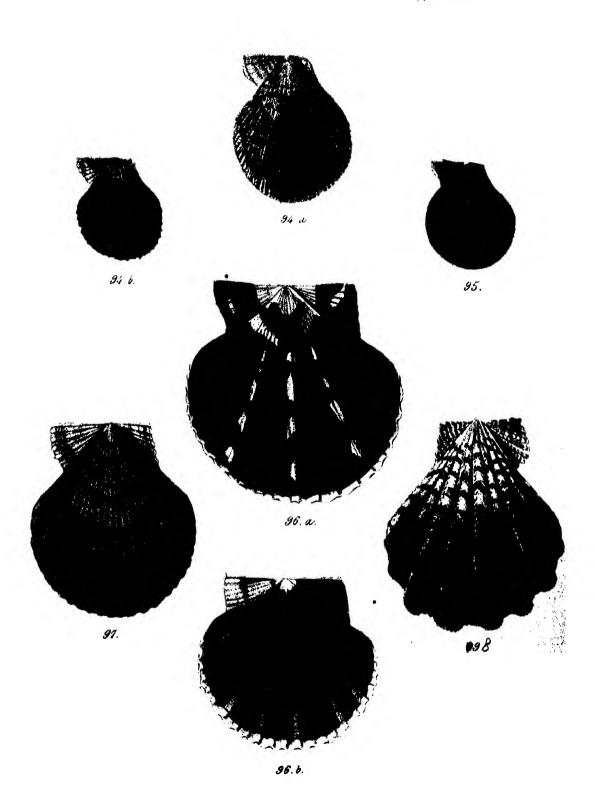


PLATE XXIV.

Species 94. (Fig. 94 a and 95, Mus. Ouming.)

PECTEN CUNEATUS. Pect. testá ovatá, altiore quam longá. æquilaterali, æquivalvi, valvis versus marginem compressis, densissime radiatim liratis et striatis, liris plus minus obtuse serratis; colore varid, interdum rufo-aurantia nigro sparsim variegata, interdum nigricantefuscă luteo variegată; auriculis valde inaqualibus.

THE WEDGE-LIKE PECTEN. Shell ovate, higher than long, equilateral, equivalve, valves compressed towards the margin, very thickly radiately ridged and striated, ridges more or less obtusely serrated : colour various, sometimes reddish-orange variegated snaringly with black, sometimes blackish-brown variegated with yellow; cars very unequal.

Hab. Moluccas.

It should be observed that the numbers of this characteristic new species in the plate are No. 94 a and 95. The Fig. 946 refers to the following species.

Species 95. (Fig. 94 b, Mus. Cuming.)

Pecten albo-lineatus. Pect. testá subtrigono-ovali, compressá, æquilaterali, æquivalvi, quinque et viginticostată, costis augustis, elevatis, serratis, interstițiis peculiariter excavatis; albidá, costis nigro-olivaceis. quinque radiatim pallidioribus, maculis parvis opacoalbis undique peculiariter aspersis; auriculis valde inæqualibus.

THE WHITE-LINED PECTEN. Shell somewhat triangularly ovate, compressed, equilateral, equivalve, twentyfive-ribbed, ribs narrow, raised, serrated, interstices peculiarly excavated; whitish, ribs black-olive, five radiately paler, peculiarly sprinkled throughout with small opake-white spots; ears very unequal.

Sowerby, Pro. Zool. Soc. 1842.

Hab. Island of Guimaras, Philippines; Cuming.

The ribs of this species are particularly narrow and raised, dark-coloured, while the interstices are light, and slashed about with opake-white marks.

Species 96. (Fig. a, b, Mus. Cuming.)

Pecten Pyxidatus. Pect. testá semiglobosá, æquilaterali, inæquivalvi, quinque et viginti-costată, valvă sinistră planá vel subconcavá, costis subangustis, angulatis, valva dextra ventricosissima, costis latiusculis, convexis, perpaucis medio versus marginem sulcatis; valva sinistrd cinereo-nigra, albo sparsim maculata, dextra alba vel carneo-cinerascente; auriculis æqualibus.

THE BOX-LIKE PECTEN. Shell semiglobose, equilateral, inequivalve, twenty-five-ribbed, left valve flat or subconcave, ribs rather narrow, angled, right valve extremely ventricose, ribs rather broad, convex, a few grooved down the middle towards the margin: left valve ash-black, blotched here and there with white. right valve white, sometimes tinged with flesh-ash; cars equal.

Born, Mus. Cas. Vind. pl. 6. f. 5 and 6.

Ostrea sulcata, Gmelin.

Hab. China, Australia, Philippine Islands.

Distinguished among other characters by a peculiar livid flesh-ash hue.

Species 97. (Mus. Cuming.)

Pecten Fabricii. Pect. testá ovatá, altiore quam longá. compresso-convexá, subæquilaterali, æquivalvi, valvis liris valde irregularibus dense radiatis, sulcis peculiariter granulato-reticulatis; valvá sinistrá pallidè rosco el aurantio tinctà el concentrice fasciatà, dextra albá; auriculis subæqualibus.

FABRICIUS' PECTEN. Shell ovate, higher than long. compressly convex, nearly equilateral, equivalve, valves thickly rayed with very irregular ridges, the grooves between which are peculiarly grain-reticulated; left valve tinged and concentrically banded with light rose and orange, right valve white: ears nearly equal.

PHILIPPI, Abbild. und Besch. Conch. Pecten, p. 3. pl. 1. f. 5. Hab. Greenland.

The ridges are very irregular in width, and the grooves, which are sharply cut, are curiously grain-reticulated. Some of the smaller ridges are squamately serrated near the margin.

Species 98. (Mus. Cuming.)

PECTEN SANGUINOLENTUS. Pect. testá subtrigoná, altiore quam longa, aquilaterali, subaquivalvi, valvis convexotumidis, undique peculiariter muricato-squamosis, costis maximis novem radiatis, interstitiis profunde excavatis; alba, intense carmineo tincta et maculata, præcipue ad costas; auriculis inæqualibus.

THE BLOOD-STAINED PECTEN. Shell somewhat triangular, higher than long, equilateral, nearly equivalve, valves convexly tumid, peculiarly prickly squamate throughout, rayed with nine very large ribs, interstices deeply excavated; white, stained and spotted, chiefly on the ribs, with rich carmine; ears unequal.

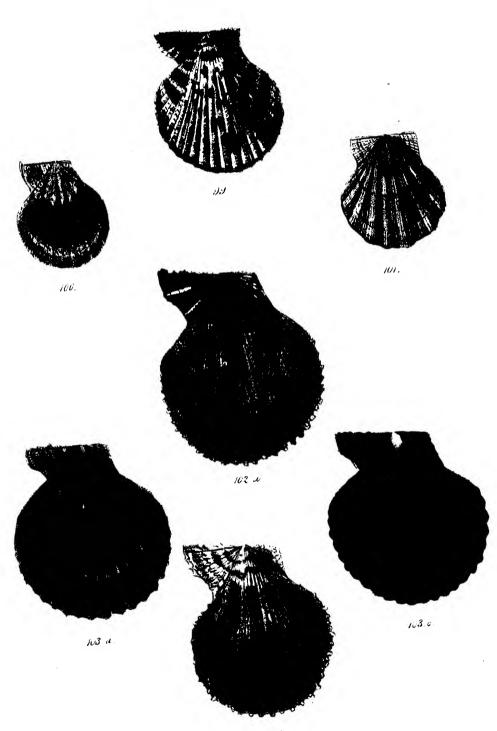
Ostrea sanguinolenta, Gmelin, Syst. Nat. p. 3322.

Pecten sanguinolentus, Sowerby.

Hab. Red Sea.

This very rare and characteristic species is of a peculiar tumid triangular form, curiously prickly-scaled through-





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PLATE XXV.

Species 99. (Mus. Cuming.)

Pecten Cristularis. Pect. testá orbiculari, compressiusculá, subæquilaterali, æquivalvi, valvis costis quinque et viginti, plano-convexis, anticis muricato-squamosis, radiatis; albidá, intensè carneo-rufo maculatá et tenuissimè concentricè lineatá; auriculis inæqualibus, squamis prominentibus cristatis.

THE CRESTED PECTEN. Shell orbicular, rather compressed, nearly equilateral, equivalve, valves rayed with five-and-twenty flatly convex ribs, of which the anterior are prickly-scaled; whitish, blotched and very finely concentrically lineated with very dark flesh-red; ears unequal, crested with prominent scales.

ADAMS and REEVE, Zool. Voy. Samarang, Mollusca, p. 74. pl. 21. f. 15.

Hab. Eastern Scas.

Of a peculiar dark flesh-red or blood-brown colouring, gently prickly-scaled on the anterior side, and prominently scaled at the upper edge of the anterior car.

Species 100. (Mus. Cuming.)

Pecten mollitus. Pect. testá suborbiculari, paululum altiore quam longá, compressá, tenui, semipellucidá, aquilaterali, aquivalvi, radiatim undique densò subtilissimò serrato-striatá; albidá aut lutescente, pellucidoroseo concentricò tinctá, punctis numerosis fuscescentibus aspersá; auriculis peculiariter inequalibus.

The delicate Pecten. Shell nearly orbicular, a little higher than long, compressed, thin, semitransparent, equilateral, equivalve, radiately densely very finely serrately striated throughout; whitish or yellowish, concentrically stained with transparent rose, and sprinkled throughout with light brownish dots; ears peculiarly unequal.

Hab. Japan.

This, as will be seen by the above description, is an extremely characteristic species; delicate in its substance, sculpture, and colouring, and quite distinct from any hitherto known.

Species 101. (Mus. Cuming.)

Pecten Miles. Pect. testá orbiculari, æquilaterali, æquivalvi, valvis rudè et irregulariter decemcostatis, costis alternatim majoribus, costis interstitiisque undique tenuiliratis; intus extusque miniaceo-rufá, immaculatá; auriculis æqualibus.

THE SOLDIER PECTEN. Shell orbicular, equilateral, equi-

valve, valves rudely and irregularly ten-ribbed, ribs alternately larger, ribs and interstices finely ridged throughout; vermilion-red within and without, unspotted; ears equal.

Hab. Java.

Conspicuously ribbed, but the ribs are developed with great irregularity; now broad or narrow, now single or duplicate.

Species 102. (Fig. a, b, Mus. Cuming.)

Pecten vanus. Pect. testă ovată, altiore quam tongit, aquilaterali, subsequivalni, valvis costis triginta ad quinque et triginta acute radiatis, costis plus minus squamatis, squamis subdistantibus, interdum promiscre porrectis; colore vario; auriculis valde inaqualibus, squamatis.

THE MANY-COLOURED PECTEN. Shell ovate, higher than long, equilateral, nearly equivalve, valves sharply rayed with thirty to five-and-thirty ribs, ribs narrow, more or less squamate, scales rather distant, sometimes promiscuously stretched out; colour various; ears very unequal, squamate.

Ostrea varia, Linnæus, Syst. Nat. (12th edit.) p. 1146. Varieties—Ostrea muricata, punctata, ochrolenca, mustelina, flammea, incarnata, and versicolor, Gmelin. Hab. Seas of Europe.

Extremely variable in colour, and also in the number of ribs, but always distinguished by a constant peculiarity of form and sculpture.

Species 103. (Fig. a, b, Mus. Cuming.)

PECTEN AUSTRALIS. Pect. testá orbiculari, interdum subventricosá, vix æquilaterali, æquivalvi, valvis costis quatuor et viginti radiatis, costis peculiariter trifuriam divisis et dense tenuiserratis; nigricante-violaced vel aurantio-roseá, immaculatá; auriculis inæqualibus.

THE AUSTRALIAN PECTEN. Shell orbicular, sometimes rather ventricose, scarcely equilateral, equivalve, valves rayed with four-and-twenty ribs, which are peculiarly three-divided and densely finely serrated; blackish-violet or orange-rose, unspotted; ears unequal.

SOWERBY, Thesaurus Conch. vol. i. p. 76. pl. 19. f. 210 and 220.

Hab. Mouth of the Swan River, Australia.

The tripartite division of the ribs is a very striking peculiarity in this species.



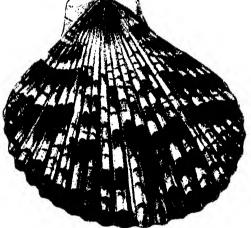
Pecten, Pl.XXVI.





105

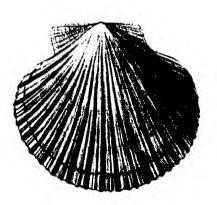




107



108.





100

PLATE XXVI

Species 104. (Mus. Cuming.)

Pecten Minificus. Pect. testă trigono-orbiculari, flabelliformi, tenniculă, aquilaterali, inaquivalvi, valvă sinistră concavo-plană, costis quinque distantibus grandisquamatis radiatis, costă esquamată prope marginem intercurrente, valvă dextră convexă, deçemcostată, costis ad summitatem angustis et obtuse muricatis; vivide carmineă, aureo-luteo lentiginosă, ad umbones pallidiore; auriculis subaqualibus.

The Strange Pecten. Shell triangularly orbicular, fanshaped, rather thin, equilateral, inæquivalve, left valve concavely flattened, rayed with five distant large-scaled ribs, with a scaleless rib between them near the margin, right valve convex, ten-ribbed, ribs narrow and obtusely prickly along the summit; bright carmine, freekled with golden-yellow, paler at the umboes; cars nearly equal.

Hab. Amboyna.

A very singular species, remarkably distinct from any hitherto described.

Species 105. (Mus. Cuming.)

Pecten aurantiacus. Pect testá subtrigono-orbiculari, paululum altiore quam tongá, valdè compressá, æquilaterali, subæquivalvi, valvá sinistrá planatá, dextrá leviter convexá, ambabus undique tenuiliratis et dense minutissime squamatis, costis quatuordecim rotundatis, interstitiis augustis, profundis, radiatis; pallidè roseo, luteo, et vividè aurantio pulcherrimè marmoratá; auriculis subæqualibus.

The orange-coloured Pecten. Shell somewhat triangularly orbicular, a little higher than long, very
compressed, equilateral, nearly equivalve, left valve
flat, right valve slightly convex, both everywhere
fuely ridged and densely very minutely scaled, and
rayed with fourteen rounded ribs, the interstices between which are narrow and deep; very beautifully
marbled with pala rose, yellow, and bright orange;
ears nearly equal.

ADAMS and REEVE, Zool. Voy. Samarang, Mollusca, p. 74. pl. 21, f. 12.

Hab. China Sea.

Richly coloured and very beautifully minutely soulp-tured.

Species 106. (Mus. Cuming.)

Pecten tinctus. Pect. lesta trigono-ovata, altiore quam longa, vix æquilaterali, æquivalvi, valvis undique radiatim dense fortiter liratis, liris subirregularibus, ut plurimum binis, serratis; albida, aurantio-minio tincta et variegata; auriculis valde inæqualibus.

The tinged Pecten. Shell triangularly ovate, higher than long, hardly equilateral, equivalve, valves everywhere radiately densely strongly ridged, ridges rather irregular, for the most part in pairs, serrated; whitish, stained and variegated with orange-vermilion; ears very unequal.

Hab. ---- ?

In sculpture this species approaches P. asperulatus, but it differs in form, and the ears are different.

Species 107. (Mus. Cuming.)

Pecten superbus. Pect. testá oblique flabelliformi, ovatá, crassiusculá, peculiariter concavo-compressá, inæquilaterali, æquivalvi, valvis costis rotundatis angustis duabus et viginti radiatis, costis lævibus, vel sub lente minutissimè concentricè striatis, interstitiis profunde excavatis, marginibus lateralibus creberrimè tenuiliratis; albidá aut lutescente, sanguineo-rufo promiscuè conspurcatá; auriculis parvis, læviusculis, subæqualibus.

THE SUPERB PECTEN. Shell obliquely fan-shaped, ovate, rather thick, peculiarly concavely compressed, inequilateral, equivalve, valves rayed with two-and-twenty narrow rounded ribs, ribs smooth, or, beneath the lens, very minutely concentrically striated, interstices deeply excavated, lateral margins very closely finely ridged; whitish or yellowish, promisenously smeared with blood-red; ears small, rather smooth, nearly equal.

SOWERBY, Thesaurus Conch. vol. i. p. 62. pl. 12. f. 11. Hab. —— ?

Of a singularly distinct typical form, and characteristic also in respect of colour.

Fig. 108. (Mus. Cuming.)

The shell here figured, from the West Indies, proves on examination to be a variety of *P. examperatus* from the same locality.

Species 109. (Mus. Cuming.)

Pecten asperulatus. Pect. testă subtrigono-orbiculari, rudi, irregulari, æquilaterali, subæquivalvi, radiatim dense fortiter liratis, liris valde irregularibus, ut plurimum binis, muricatim squamato-serratis; albidă aut lutesceute, prope marginem violaceo tinctă, ad umbones miniaceă; auricutis inæqualibus, anticis grandibus subflexuosis.

THE ROUGHENED HELIX. Shell somewhat triangularly orbicular, rude, irregular, equilateral, nearly equivalve, radiately densely strongly ridged, ridges very irregular, for the most part in pairs, prickly scale-scrated; whitish or yellowish, tinged with violet near the margin, vermilion-red at the umboes; cars unequal, front cars large, rather flexuous.

ADAMS and Reeve, Zool. Voy. Samarang, Mollusca, p. 74. pl. 21. f. 13.

Hab. Corean Archipelago.

Of characteristic form and sculpture, but rude and irregular in growth.

Species 110. (Mus. Cuming.)

Pecten Patagonicus. Pect. testá orbiculari, subventricosá, æquilaterali, subæquivalvi, valvis costis numerosus
radiatis, costis valvæ sinistræ subangustis, versus marginem trifariam divisis, interstitiis sub lente minutusimè concentricè striatis, valvæ dextræ latioribus, obtusis; albá, costis valvæ sinistræ alternatim fulvoaurantiis.

THE PATAGONIAN PECTEN. Shell orbicular, rather ventricose, equilateral, nearly equivalve, valves rayed with numerous ribs, ribs of the left valve rather narrow, three-divided towards the margin, interstices, beneath the lens, very minutely concentrically strinted, ribs of the right valve broader, obtuse; white, ribs of the left valve alternately fulvous-orange.

KING, Zoological Journal?

Hab. Patagonia and Straits of Magalhaens.

Elegantly characterized by the alternate rayed colouring of the ribs.



Pecten. Pt. XXVII.

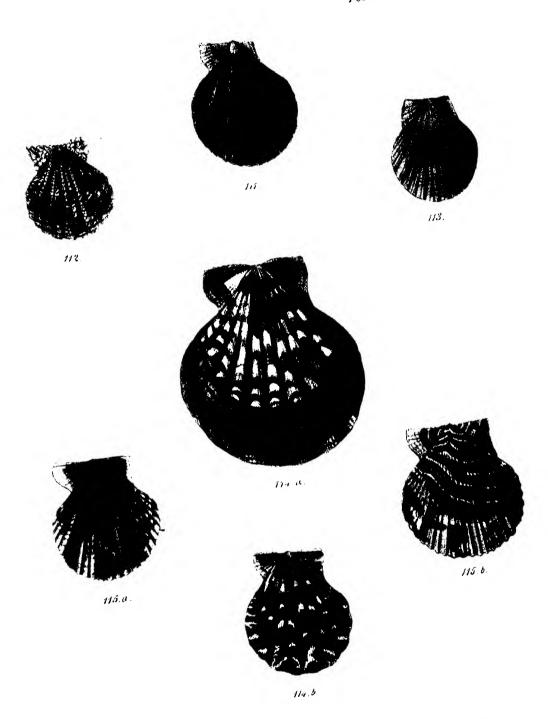


PLATE XXVII.

Species 111. (Mus. Cuming.)

Pecten Gemmulatus. Pect. testá subtrigono-orbiculari, tenui, compressá, æquilaterali, subæquivalvi, radiatim densè liratá, liris hic illic majoribus, undique pulcherrimè minutè muricato-serratis; albidá, carneo-roseo tinctá; auriculis valdè inæqualibus.

THE FINELY-BEADED PECTEN. Shell somewhat triangularly orbicular, thin, compressed, equilateral, nearly equivalve, radiately densely ridged, ridges here and there larger, very beautifully minutely prickly serrated throughout; whitish, stained with flesh-rose; ears very unequal.

Hab. New Zealand.

A thin rather fragile species, very delicately but densely prickly-serrated throughout.

Species 112. (Mus. Cuming.)

Pecten speciosus. Pect. testá trigono-orbiculari, compressá, æquilaterali, subæquivalvi, valvis costis duodecim ad tredecim radiatis, costis latiusculis subconfertis, squamis amplis pulcherrimè fornicatis undique densè ornatis; albá, valvá sinistrá nigricante-fusco roseoque tinctá et tessellatá, dextrá pallidiore; auriculis inæqualibus, imbricato-squamatis.

THE BEAUTIFUL PECTEN. Shell triangularly orbicular, compressed, equilateral, nearly equivalve, valves rayed with twelve to thirteen ribs, which are somewhat broad and rather close-set, densely ornamented throughout with large very beautifully vaulted scales; white, left valve stained and tessellated with blackish-brown and rose, right valve paler; ears unequal, imbricately-scaled.

Hab. Philippine Islands.

This very beautiful little species is furbelowed throughout with rather broadly vaulted scales, and most delicately coloured.

Species 113. (Mus. Cuming.)

Pecten nasans. Pect. testá ovatá, tenui, pellucidá, aureo-vitreá, sub tente minutissimè concentrice striatá, æquilaterali, æquivalvi, valvis costis obtusis, subobsoletis, irregulariter radiatis; auriculis subinæqualibus.

THE GOLDEN PECTEN. Shell ovate, thin, transparent, golden-glassy, beneath the lens very minutely concentrically striated, equilateral, equivalve, valves irregularly rayed with rather obsolete obtuse ribs; ears rather unequal.

PHILIPPI, (Mus. Cuming.)

Hab. Straits of Magalhaens.

A delicately transparent golden glossy shell, with somewhat the aspect of a Terebratula.

Species 114. (Fig. a, b, Mus. Cuming.)

Pecten vexillum. Pect. testá orbiculari, ad latera subimpressá, crassá, aquilaterali, subæquivalvi, valvis undique tenniliratis et densè minutissimè serratis, costis grandibus octo radiatis; valvá sinistrá carmineá vel cinereo-griseá, albo promiscuè maculatá, valvá dextrá albidá, carmineo punctatá; auriculis æqualibus.

THE FLAG PECTEN. Shell orbicular, rather impressed at the sides, thick, equilateral, nearly equivalve, valves finely ridged and densely very minutely serrated throughout, rayed with eight large ribs; left valve carmine or ash-grey, promiscuously spotted with white, left valve whitish, dotted with carmine; ears equal.

Hab. ——?

A beautiful and very characteristic species, variously painted, although the painting above described is the prevailing colour.

Species 115. (Fig. a, b, Mus. Cuming.),

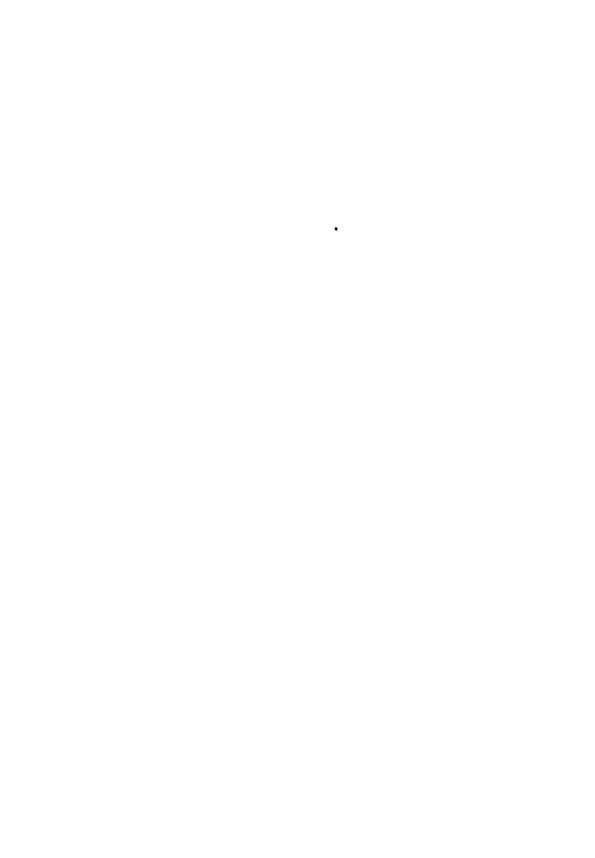
PECTEN PICA. Pect: testá orbiculari, compressá, æquilaterali, subæquivalvi, valvis costis una et viginti angustis radiatis, interstitiis excavatis; albá, grisco et fusco-nigricante variegatá; auriculis grandibus, subæqualibus.

THE MAGPIE PECTEN. Shell orbicular, compressed, equilateral, nearly equivalve, valves rayed with twentyone narrow ribs, interstices excavated; white, variegated with grey and brown-black; ears large, nearly equal.

Hab. New Zealand.

A new and well-marked species, pied with brown-black and grey.



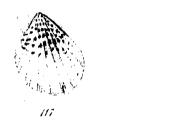


Pecten Pl.XXVIII.





















121.







124.

PLATE XXVIII.

Species 116. (Mus. Cuming.)

Pecten Pictus. Pect. testá frigono-orbiculari, compressoconverá, æquilaterali, subæguivalvi, valvis costis tredecim radiatis, costis angulatis, ad latera et interstitiis minutè crenulatis, costarum partibus albis valvæ sinistræ irregulariter corrugato-crenatis; albá, punctatoroseo latè variegatá; auriculis subægualibus.

THE PAINTED PECTEN. Shell triangularly orbicular, compressly convex, equilateral, nearly equivalve, valves rayed with thirteen ribs, which are angled and minutely crenulated at the sides and in the interstices, white parts of the ribs of the left valve irregularly wrinkle-crenated; white, broadly variegated with dotted rose; cars nearly equal.

SOWERBY, Thesaurus Conch. vol. i. p. 62. pl. 20. f. 233. Hab. Isle of Baicus, Philippines; Cuming.

It is a singular peculiarity in this shell, that the uncoloured parts of the ribs of the left valve are irregularly wrinkled-crenated, but not the coloured.

Species 117. (Mus. Cuming.)

Pecten Madreforarum. Pect. lestá oblique ovatá, altiore quam lonyá, subirregulari, inæquilaterali, inæquivalvi, valvá sinistrá plano-convexá, dextrá convexiore,
ambabus dense minute rude crenulato-striatis; albá,
valvá sinistrá nigro-fusco prope umbonem punctatá;
umbonibus valde æqualibus.

The Madrepore Pecten. Shell obliquely ovate, higher than long, rather irregular, inequilateral, inequivalve, left valve flatly convex, right valve more convex, both valves densely minutely rudely crenulately striated; white, left valve dotted near the umbo with black-brown; umboes very unequal.

Pettr, Sowerby, Thesaurus Conch. vol.i. p. 68. pl. 14. f. 68. Hab. Java (in masses of madrepore).

A light thin white shell, dotted with black on the left valve towards the umboes.

Species 118. (Mus. Cuming.)

Pecten spiniferus. Pect. testă trigono-orbiculari, compressă, subæquilaterali, inæquivalvi, valvă sinistră leviler convexă, costis novem latis, rotundatis, pulcherrime squamatis radiată, squamis eximie fornicatis et fimbriatis, costis extremis lateralibus angustis spinososquamatis, costarum interstitiis subtiliter liratis, valva dextra novem-costata et lirata, squamis parvioribus plus numerosis, minus fimbriatis, costis extremis spinososquamatis; semipellucido-alba, roseo hic illic sparsim tincta; auriculis valdè inæqualibus, valvæ dextræ ad marginem spinoso-squamatis.

The spined Pecten. Shell triangularly orbicular, compressed, nearly equilateral, inequivalve, left valve slightly convex, rayed with nine broad, rounded, very beautifully scaled ribs, scales delicately vaulted and fringed, outer lateral ribs narrow, spinosely-scaled, interstices between the ribs finely ridged, right valve also nine-ribbed and ridged, with the scales smaller, more numerous, and less fringed, outer ribs spinosely squamate; semitransparent-white, sparingly tinged here and there with pink; ears very unequal, car of the right valve spinosely scaled along the edge.

Sowerby, Pro. Zool. Soc. 1835, p. 110.

Pecten pulcherrimus, Gray.

Hab. Lord Hood's Island, Pacific Ocean (on the reefs in coral sand); Cuming.

This very beautiful species has very much the general aspect of *P. speciosus*, described in the preceding Plate, but, on examination, it will be found to differ in its detail of sculpture throughout.

Species 119. (Mus. Cuming.)

Pecten arthriticus. Pect. testă trigono-orbiculari, æquilaterali, inæquivalvi, valvă sinistră convexă, et irregulariter rude tumulosă, valvă dextră minus convexă, plus regulari, ambabus decemcostatis, costis hic illic nodutis, undique tenuiliratis, lirarum interstitiis subtiliter crenulatis; purpureo-griseă, prope umbonem albă; auriculis valde inæqualibus.

The gouth Pecten. Shell triangularly orbicular, equilateral, inequivalve, left valve convex and irregularly rudely tumulous, right valve less convex and more regular, both valves ten-ribbed, ribs here and there noduled, finely ridged throughout, interstices between the ridges finely crenulated; purple-grey, white near the umboes; cars very unequal.

Hab. --- ?

Of singularly rude growth, though distinguished by a characteristic plan of sculpture.

May, 1853.

Species 120. (Mus. Cuming.)

Pecten Tribadiatus. Pect. testá suborbiculari, compresso-convexá, æquilaterali, æquivalvi, valvis costis
viginti rotundatis squamato-crenatis radiatis, interstitiis excavatis; pollidè carneo-variegatá, radiis tribus
centralibus albis notatá: auriculis valdè inæqualibus.

THE THREE-RAYED PECTEN. Shell nearly orbicular, compressly convex, equilateral, equivalve, valves rayed with twenty rounded, squamately crenulated ribs, the interstices between which are excavated; variegated with pale flesh-colour, marked with three central white rays; cars very unequal.

Hab. ---- P

A distinct and well-marked species, though of simple character.

Species 121. (Mus. Cuming.)

Pecten erubencens. Pect. testá orbiculari, subæquilaterali, inæquivalvi, valvá sinistrá subplaná, dextrá convexá, ambabus costis viginti angustis obsoletè crenatis radiatis, interstitiis subprofundis; albá, incarnato-roseo pallidè tinctá, et prope umbones sparsim punctatá, valvá dextrá pallidiore; auriculis subæqualibus.

THE BLUSHING PECTEN. Shell orbicular, nearly equilateral, inequivalve, left valve rather flat, right valve convex, both valves rayed with twenty narrow obsoletely cronated ribs, the interstices between which are rather deep; white, faintly tinged with fleshpink, sparingly spotted near the umbocs, right valve the paler; ears nearly equal.

Hab. ---- ?

Coloured with a delicate blush tinge of flesh-pink.

Species 122. (Fig. a, b, Mus. Cuming.)

Pecten tigrinus. Pect. testá trigono-orbiculari, aquilaterali, aquivalvi, valvis, sub lente, minutissimè corrugato-decussatis, et radiatim liratis, nunc lavibus, nunc quinquecostatis, costis subnodosis; purpureo-rufá, albo sparsim undato-maculatá; auriculis valdè inaqualibus.

THE TIGER-MARKED PECTEN. Shell triangularly orbicular, equilateral, equivalve, very minutely wrinkle-decussated beneath the lens, and radiately ridged, now smooth, now five-ribbed, ribs slightly noduled; purple-red, sparingly wave-blotched with white; cars very unequal.

MULLER, Zoologia Danica, pl. 60. f. 6, 7, 8. Ostrea tigrina, Gmelin.

Pecten lævis and obsoletus, Pennant. Pecten domesticus, Chemnitz.

Pecten Armoricanus, Chenu.

Hab. Celtic and Northern Europe (in twelve to sixty fathoms); Forbes and Hanley.

Extremely variable in sculpture, but not differing materially in colour.

Species 123. (Mus. Cuming.)

Pecten fulvicostatus. Pect. testá suboblique trigonoovatá, altiore quam longá, tenui, compressá, inæquilaterali, subæquivalvi, valvis decemcostatis, undique tenuiliratis et, sub lente, minutissime granulatis; pellucidualbá, costis pallide fulvis, valvá sinistrá punctis perpaucis carmineis prope umbonem pictá; auriculis valde inæqualibus.

THE YELLOW-RIBBED PECTEN. Shell rather obliquely triangularly ovate, higher than long, thin, compressed, inequilateral, nearly equivalve, valves tenribbed, finely edged throughout, and, beneath the lens, very minutely granulated; transparent-white, ribs pale yellow, left valve painted near the umbo with a few carmine dots; ears very unequal.

Adams and Reeve, Zool. Voy. Samarang, Mollusca, p. 74. pl. 21. f. 11.

Hab. Sooloo Archipelago.

A thin semitransparent shell, rayed with ten conspicuous yellow ribs, while the left valve is painted with a few characteristic lake-red dots.

Species 124. (Mus. Cuming.)

PECTEN LIMATULA. Pect. testá ovatá, altiore quam longá, subcompressá, tenui, semipellucidá, æquilaterali, viz æquivalvi, undique densè liratis, liris squamis parcu subdistantibus nitidè asperatis; albá, valvá sinistrá purpureo-lacco pallidissimè, et etiam intensè, sparum maculatá; auriculis valdè inæqualibus.

THE SMALL FILE PECTEN. Shell ovate, higher than long, rather compressed, thin, semitransparent, equilateral, scarcely equivalve, everywhere densely ridged, the ridges being neatly roughened by small rather distant scales; white, left valve very faintly and also very deeply blotched with purple-lake; cars very unequal.

Hab. --- ?

Very delicately and elaborately sculptured with subservet scales on close-set ridges.

Pecten .Pt.XXIX.





126





128.



130.



132 .



129 a

131.



133.

PLATE XXIX.

Species 125. (Mus. Cuming.)

Pecten sentis. Pect. testa subtrigono - ovata, altiore yuam longa, æquivalvi, subæquilaterali, profusè tenuilirata, liris alternatim majoribus, densè aculeato-squamatis, intensè miniata, maculis perpaucis albis ad latera; auriculis valdè inæqualibus, anticis, amplis, subfexuosis; posticis vix nullis.

THE BRANGLE PECTEN. Shell somewhat triangularly ovate, higher than long, equivalve, nearly equilateral, profusely finely ridged, ridges alternately larger, densely prickly-scaled, deep vermilion, with a very few whitish spots at the sides; ears very unequal, the anterior large and flexuous, the posterior almost none.

IIab. --- ?

A delicate finely prickly-scaled species, of a deep vermilion colour, with the ears very unequal.

Species 126. (Mus. Cuming.)

Pecten Russatus. Pect. testa subtrigono-orbiculari, aquivalvi, valvis costis ad viginti angustis radiatis, interstitiis subexcavatis, ad latera costarum serrulatis; carnea, rufo-fusco lenliginosa; auriculis valdè inaqualibus.

THE FLESH-TINGED PECTEN. Shell somewhat triangularly orbicular, equilateral, equivalve, valves rayed with about twenty narrow ribs, interstices rather hollow, serrulated at the sides of the ribs; flesh-colour, freekled with red-brown; ears very unequal.

Hab. Sandwich Islands.

A small sharply-ribbed freckled shell.

Fig. 127. (Mus. Cuming.)

This shell proves to be a small yellow variety of *P. ex-*asperatus, described at Pl. II.

Species 128. (Mus. Saul.)

l'ecten spectabilis. Pect. lestá ovatá, flabelliformi, equilaterali, inequivalvi, valvá sinistrá planatá, costis duodecim subirregularibus, elevatis, supernè rotundatis el concentricè annulato-liratis, radiatá; valvá dextrá convexá, costis latioribus annulato-liratis, interstitiis in valvis ambabus tenuiscabrosis; albá, costis alternatim

nigricante et minio tessellatis; auriculis grandibus, subæqualibus, rufipunctatis.

THE REMARKABLE PECTEN. Shell ovate, fan-shaped, equilateral, inequivalve, left valve flattened, rayed with twelve somewhat irregular ribs, rounded and concentrically ring-ridged at the upper part; right valve convex, ribs broader, ring-ridged, interstices in both valves finely scabrous; white, ribs alternately tessellated blackish and vermilion; ears large, nearly equal, red-dotted.

Hab. ---- ?

A very beautifully sculptured and peculiarly coloured species, remarkably distinct from any hitherto described.

Species 129. (Fig. a, b, Mus. Cuming.)

Pecten cretatus. Pect. testā ovatā, paululum ultiore quam longā, tenui, pellucidā, subinæquilaterali, inæquivalvi, sinistrā convexā, dextrā planiore, ambabus undique pulcherrimē granulato-serratis, costis tenuibus anyustis duabus et viginti radiatis; vitreo-albā, valvā sinistrā carneo-roseo muculatā, radiis aut strigis peculiariter opaco-albis ornatā; auriculis parviusculis, subæquatibus.

THE CHALKY PECTEN. Shell ovate, a little higher than long, thin, transparent, rather inequilateral, inequivalve, left valve convex, right valve flatter, both valves very beautifully granulately serrated throughout, and rayed with two-and-twenty thin narrow ribs; glassy white, left valve spotted with flesh-rose, and ornamented with peculiarly opake-white rays and streaks; ears rather small, nearly equal.

Hab. ---- ?

Most elaborately sculptured though of delicate glassy texture, marked with flesh-rose spots and opake chalkwhite rays and streaks.

Species 130. (Mus. Saul.)

Pecten Histrionicus. Pect. testa ovala, flabelliformi, aequilaterali, inaquivalvi, valva sinistra plana, dextra convexiore, ambabus costis duodecim lævibus subobtusis radiatis, costis lateralibus serratis; alba, valva sinistra maculis nigris et roseis irregulariter tessellatis et roseopunctatis, valva dextra vix carneo maculata; auriculis inæqualibus.

The Harlequin Pecten. Shell ovate, fan-shaped, equilateral, inequivalve, left valve flat, right valve more convex, both valves rayed with twelve smooth rather obtuse ribs, lateral ribs serrated; white, left valve irregularly tessellated with black and rose spots, and rose-dotted, right valve faintly flesh-dotted; cars equal.

GMELIN, Syst. Nat. p. 3326.

Hab. Eastern Seas.

The tessellated painting varies considerably in this well-known species, in being larger or smaller in pattern, but it is always of the same colour.

Species 131. (Mus. Cuming.)

Pecten cuneolus. Pect. testá oblique flabelliformi, compressá, inæquilaterali, inæquivalvi, valvis, sinistrá planiusculá, dextrá convexiore, costis quatuordecim latis liratis subnodosis radiatis; fulvá, albo sparsim notatá auriculis valde inæqualibus, nosticis vix nullis.

THE LITTLE WEDGE PECTEN. Shell obliquely fan-shaped, compressed, inequilateral, inequivalve, valves, the left rather flattened, the right more convex, rayed with fourteen broad ridged subnodose ribs; fulvous, sparingly marked with white; cars very unequal, the posterior almost wanting.

Hab. --- ?

Characterized distinctly by its compressly oblique nodulous form.

Species 132. (Mus. Cuming.)

Pecten altus. Pect. testá ovatá, ventricosá, altiore quam

longá, æquilaterali, æquivalvi, valvis costis tenuibus numerosis lævibus dense radiatis; violaceá, fusco-nigro sparsim variegalá; auriculis valde inæqualibus, posticis perparvis.

THE HIGH PECTEN. Shell ovate, ventricose, higher than long, equilateral, equivalve, valves densely rayed with numberous smooth fine ribs; violet, sparingly variegated with brown-black; ears very unequal, the posterior very small.

Hab. ----?

An unusually narrow ventricose species, closely finely smooth-ribbed throughout.

Species 133. (Mus. Cuming.)

Pecten parvus. Pect. lestā trigono-ovatā, subæquitaterali, æquivalvi, valvis, sinistrā planā, dextrā convexiore, octocostatis, costis rotundatis, tumidiusculis, fimbriatoscabrosis, alternatim majoribus, interstitiis liris parvis scabrosis duabus vel tribus; albā, punctis perpaucis roseis notatā, umbonibus roseis; auriculis valdē inæqualibus.

THE SMALL PECTEN. Shell triangularly ovate, nearly equilateral, equivalve, valves, the left flat, the right more convex, eight-ribbed; ribs rounded, rather swollen, fimbriately scabrous, alternately larger, interstices with two to three small scabrous ridges; white, marked with a very few rose dots, umboes rose; ears very unequal.

SOWERBY, Pro. Zool. Soc. 1835, p. 110.

Hab. Lord Hood's Island, l'acific Ocean (in coral sand on the reefs); Cuming.

Most claborately scabrous-sculptured throughout.

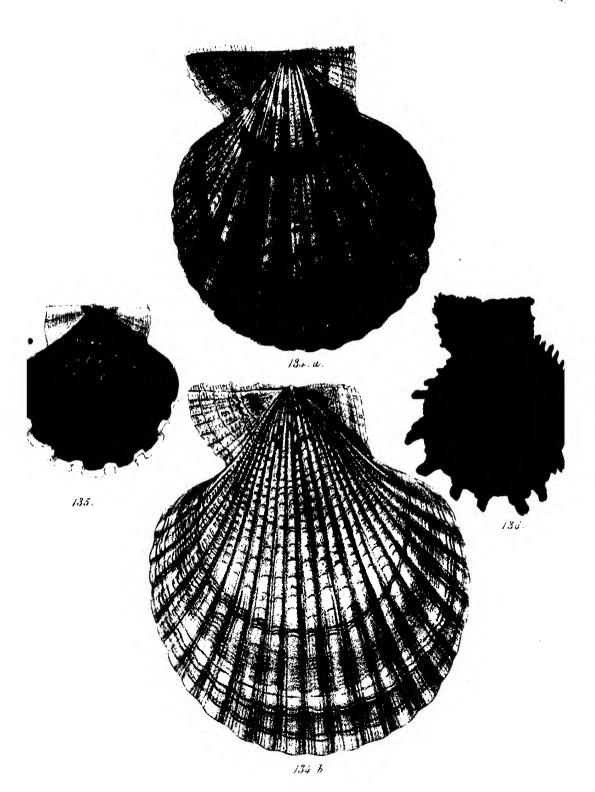


PLATE XXX.

Species 134. (Fig. a, b, Mus. Cuming.)

Pecten nontres. Pect. testá subordiculari, compressoconvexá, aquilaterali, aquivalvi, costis duadus et viginti radiatá, costis anticis tenuisquamatis, interstitiis
subtiliter serrato-liratis, costis lateralibus versus umbonem squamatis, squamis subremotis, erecto-muricatis;
albidá, purpurascente-fusco tinctá et variegatá, interdum intense croceá; auriculis inaqualibus, plus minus
squamatis.

THE NOBLE PECTEN. Shell nearly orbicular, compressly convex, equilateral, equivalve, rayed with two-and-twenty ribs, anterior ribs thinly scaled, interstices finely serrately ridged, lateral ribs scaled towards the unboes, the scales being rather distant and creetly prickly; whitish, tinged and variegated with purplish-brown, sometimes deep saffron-yellow; cars unequal, more or less scaled.

Hab. Moreton Bay, Australia; Strange.

This fine species, from Moreton Bay, is perfectly distinct from any other hitherto known, though not distinguished very strikingly in general aspect.

Species 135. (Mus. Cuming.)

Pecten Laqueatus. Pect. testá semiglobosá, æquilaterali, valdè inæquivalvi, valvá sinistrá depresso-concavá, in dextrá immersá, concentrice dense striatá, costis octo rolundatis distantibus radiatá, fulvo-rufescente, costis saturalioribus, versus umbonem interruptis; valvá dextrá valdè convexá, ventricosá, costis septem latissimis lævibus, costis duabus minoribus ad utrumque latus, interstitiis augustis, profundè excavatis, concentricè striatoscabrosis; albá, maculis perpancis rufts prope umbonem; auriculis æqualibus.

THE GUTTERED PECTEN. Shell semiglobose, equilateral, very inequivalve, left valve depressly concave, im-

mersed in the right valve, concentrically densely striated, rayed with eight rounded distant ribs, fulvous-red, ribs darker red, interrupted towards the umbo; right valve very convex, ventricose, with seven very broad smooth ribs, with two smaller ribs on each side, interstices narrow, deeply excavated, concentrically striately scabrous; white, with a very few red spots near the umbo; ears equal.

SOWERBY, Thesaurus Conch. vol. i. p. 46. pl. 15. f. 101. Hab. California.

Described by Mr. Sowerby, from a single valve, the right one. In the accompanying figure, the left valve, which was not known to him, is the most conspicuous.

Species 136. (Mus. Cuming.)

Pecten Tegula. Pect. lestá trigono-orbiculari, altiore quam longá, compressá, subirregulari, vix æquilaterali, inequivalvi, valvá sinistrá costis novem ad tredecim plus minus conspicuè foliaceo-squamatis irregulariter radiatá, dextrá multiliratá, liris obtusis, densè brevisquamatis; purpureo-castaneá, squamis pallidioribus, umbonibus violascentibus; auriculis valdè inæqualibus.

THE TILE-BOOF PECTEN. Shell triangularly orbicular, higher than long, compressed, rather irregular, scarcely equilateral, inequivalve, left valve irregularly rayed with nine to thirteen more or less conspicuously foliaceous-scaled ribs, right valve many-ridged, ridges obtuse, densely short-scaled; purple-chestnut, with the scales paler, umboes violet; cars very unequal.

Wood, Index Testaceologicus, Supp. p. 7. pl. 2. Ostrea, f. 3.

Hab. Sydney; Strange.

Distinguished from all other Pectens by its irregular foliaceous-scaled Spondylus-like growth.





Pecten, Pl. XXXI.



137.



139 a



....



140.a.



141.



139 6



140.6

PLATE XXXI.

Species 137. (Mus. Cuming.)

Pecten Circularis. Pect. lestá globosá, ventricosissimá, æquilaterali, inæquivalvi, valvis, dextrá convexiore, costis lævibus fortibus octodecim, interstitiis excavatis, radiatis; cinereo-albá, griseo-nigro tinctá et varisgatá; auriculis æqualibus.

THE CIRCULAR PECTEN. Shell globose, very ventricose, equilateral, inequivalve, valves, right the more convex, rayed with eighteen smooth strong ribs, of which the interstices are excavated; ash-white, stained and variegated with greyish-black; ears equal.

SOWERBY, Pro. Zool. Soc. 1835. p. 110.

Hab, California (in sandy mud at seven fathoms); Cuming.

It is very doubtful whether this is anything more than a variety of P. nucleus.

Species 138. (Mus. Cuming.)

Pecten denticulatus. Pect. testă trigono-ovată, altiore quam longă, plunulată, compressă, tensii subpelizitătă, aquilaterali, subaquivalvi, valvis rădiatim liratis, liriz valva sinistra ad quindecim, angustis, alternatiin majoribus, squamulis parvis irregulatibus, valva dextra permultis, squamulis minoribus, scabino-aquicatis; axriculis valde inaqualibus, superne denticulatis; pellucido-lutescente, roseo obsolete tinclă.

THE DENTICLED PECTEN. Shell triangularly ovate, higher than long, flattened, compressed, thin, subtransparent, equilateral, nearly equivalve, valves radiately ridged, ridges of the left valve about afteen in number, alternately larger, fimbriated with small integrals scales, of the right valve very numerous, with the scales smaller and scabrous-prickly; ears very unequal, denticulated along the upper edge; transparent yellow, obsoletely tinged with rose.

ADAMS and REEVE, Zool. Voy. Samarang, Moll. p. 74.

Hab. Shores of Borneo.

A thin transparent flatly compressed shell, rayed with numerous fine scabrous-scaled ridges.

Species 139. (Fig. a, b, Mus. Cuming.)

PECTEN FUCATUS. Pect. testa suborbienlari, tennicula, subconvexa, æquilaterali, æquivalvi, valvis costis duo-decim rolundatis subnodosis radiatis, costis et præcipue interstitis prope marginem liratis; alba, prope marginem carmined aut violaced; auriculis inæqualibus;

THE DYED PECTEN. Shell nearly orbicular, rather thin, slightly convex, equilateral, equivalve, valves rayed with twelve rounded subnodose ribs, ribs and especially the interstices ridged near the margin; white, carmine or violet near the margin; cars unequal.

Hab. West Indies.

Of very simple character, but peculiarly distinct from any other described species.

Species 140. (Fig. a, b, Mus. Cuming.)

Pecten Cumingii. Pect. testă orbiculari, compresso-convexă, aquilaterali, subaquivalvi, valvis costis rotundatis viginti regulariler radiatis, interstitiis subexcavatis, striis concentricis subtitissime exsculptis; albidă, violaceo-fusco et aurantio interdum rosco et violaceo variegală; auriculis grandibus, aqualibus, aut roscis aut purpureo-fuscis, strigis albis acute undulatis sape notatis.

CUMING'S PECTEN. Shell orbicular, compressly convex, equilateral, nearly equivalve, valves regularly rayed with twenty rounded ribs, the interstices being excavated and very finely sculptured with concentric atrice; whitish, variegated with violet-brown and orange, sometimes with rose and violet only; ears large, equal, rose or purple-brown, often marked with white zigzag streaks.

Hab. Moreton Bay, Australia; Strange.

This fine here species is greatly distinguished for its very rich and beautiful colouring.

Species 141. (Mus. Cuming.)

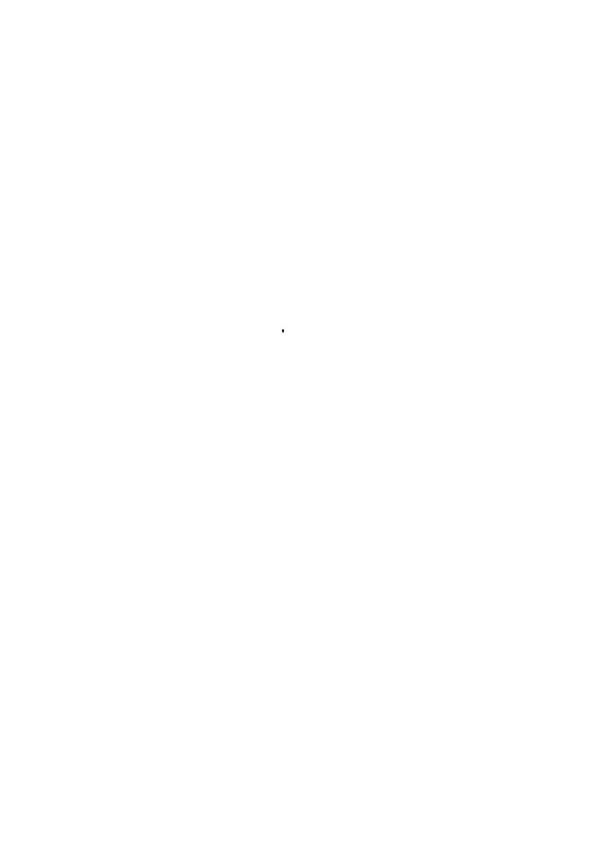
PECTEN CORNEUS. Pect. testā subobligad ovatā, mācorneā, convexā, inæquilaterali, subæquivalvī, mabris costis plurimis, lævibus, irregularibus, radiatis, interstitis concentricò tenuistriatis; pellucido-albā, costis hic illic fulvo-corneis; auriculis subæqualibus.

THE HORNY PECTEN. Shell rather obliquely ovate, rather horny, convex, inequilateral, nearly equivalve, valves rayed with numerous smooth irregular ribs, interstices concentrically finely striated; transparent-white, ribs here and there fulvous-horny; cars nearly coual.

Sowersy, Thesaurus Conch. vol. i. p. 71. pl. 13. f. 44 and 45, and pl. 20. f. 244 and 245.

Hab. Straits of Magalhaens.

Approximating to the type represented by P. Palagonicus, from the same locality.





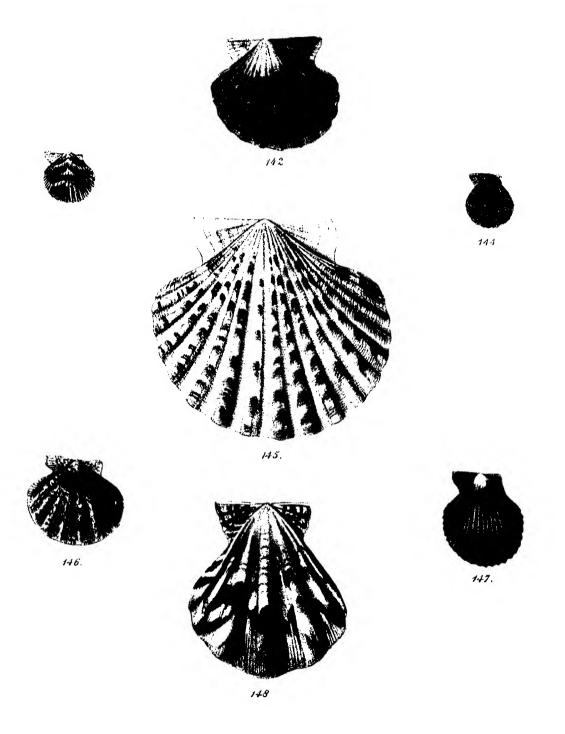


PLATE XXXII.

Species 142. (Mus. Cuming.)

ETCIEN PULCHELLA. Pect. testá subquadrato-orbiculari, compresso-convexá, subæquivalvi, inæquilaterali, valvis concentricè tenuistriatis, costis lævibus quatuordecim peculiariter obliquè radiatis, interstitiis latiusculis; albidá, rosco et violaceo profusè et eximiè tinctá, valvá dextrá pallidiore: auriculis grandibus, inæqualibus.

THE PRETTY PECTEN. Shell somewhat squarely orbicular, compressly convex, nearly equivalve, inequilateral, valves concentrically finely striated, peculiarly obliquely rayed with fourteen smooth ribs, interstices rather broad; whitish, profusely and delicately stained with violet and rose, right valve the paler; ears large, unequal.

Hab. Moreton Bay, Australia; Strange.

A delicate but richly coloured species, rib-rayed in a peculiarly oblique manner.

Species 143. (Mus. Cuming.)

Pect. testá globosá, valdè convexá, aquilaterali, inæquivalvi, valvis costis peculiariter acutè tri-liratis viginti radiatis, interstitiis densè scabrosa-canvellatis; albidá, rosco variè tinctá et maculatá; avriculis inæqualibus.

The GLITTERING PECTEN. Shell globose, very convex, equilateral, inequivalve, valves rayed with twenty ribs, which are peculiarly sharply three-ridged, interstices densely scabrous-cancellated; whitish, variously stained and blotched with rose; ears unequal.

HINDS, Moll. Voy. Sulphur, p. 61. pl. 17. f. 3.

Hub. Port Anna Maria, Nukuhiva, Marquesas Islands (in seven fathoms on a sandy floor); Belcher.

The ribs of this species differ peculiarly in structure from those of any other.

Species 144. (Mus. Cuming.)

Pecten Rugosus. Pect. testá ovatá, æquilaterali, æquivalvi, valvis costis viginti, confertis, brevisquamatis, radiatá; fulvá, fusco-nigricante variegatá; auriculis inæqualibus.

THE ROUGH PECTEN. Shell ovate, equilateral, equivalve, valves rayed with twenty close-set short-scaled ribs; fulvous, variegated with brown-black; ears unequal.

Sowerby, Pro. Zool. Soc. 1842.

Hab. Island of Burias, Philippines; Cuming.

A small profusely scaled species, of variegated tortorseshell-like colouring.

Species 145. (Mus. Cuming.)

Pecten Leopardus. Pect. testă ovată, flabelliformi, medio subconvexă, ad umbones et versus marginem compressă, æquilaterali, cix æquivalvi, valvis concentrici dense scabroso-striatis, costis sexdecim rotunulatis radiatis, costis valvæ sinistræ subangustis distantibus, dextræ latioribus minus distantibus; albă, costis catræ sinistræ fulco-ferrugineo tinctis et maculatis; auriculis grandibus, æqualibus.

The Leopard Pecter. Shell ovate, fan-shaped, slightly convex in the middle, compressed at the umboes and towards the margin, equilateral, scarcely equivalve, valves concentrically densely scabrous-striated, rayed with sixteen rounded ribs, ribs of the left valve rather narrow and distant, of the right valve broader and less distant; white, ribs of the left valve stained and spotted with fulvous rust; cars large, equal.

Hab. Moreton Bay, Australia.

A very delicate densely strinted species, of the same peculiar type as $P.\ solaris$.

Species 146. (Mus. Cuming.)

Pecten Hyalina. Pect. lestă elongato-ovată, flabelliformi, tenui, hyalină, nilente, vix aquilaterali, aquivalvi, valvis costis decem planulatis superficiariis obsolete radiatis; cinerascente-corneă, punctis rufis et albis promiscue aspersă; auriculis aqualibus.

THE HYALINE PECTEN. Shell clongately oval, fanshaped, thin, hyaline, shining, scarcely equilateral, equivalve, valves obsoletely rayed with ten flattened superficial ribs; ash-horny, promiscuously sprinkled with red and white dots; cars equal.

Poli, Test. utriusque Sicil. pl. 28. f. 6.

Hab. Mediterranean.

A transparent horny shell, with the ribs so superficial as to be scarcely perceptible.

Species 147. (Mus. Cuming.)

Pecten nufinadiatus. Pect. testă ovată, altiore quam longă, tenuiculă, æquilaterali, æquivalvi, valvis costis sec et viginti angustis subacutis nitide radiatis, costis luteralibus liră intermediă prope marginem, costis interstitiisque undique subtilissime crenulatis; pellucidoalbă, costis conspicue rufis; anriculis inæqualibus, subobliquis.

THE RED-RAYED PECTEN. Shell ovate, higher than long, rather thin, equilateral, equivalve, valves neatly rayed with six-and-twenty narrow sharp ridges, lateral ribs with an intermediate ridge near the margin, ribs and

interstices very finely crenulated throughout; transparent-white, ribs conspicuously red; ears unequal, rather oblique.

Hab. Strait of Magalhaens.

Another very characteristic form of the type peculiar to this locality, represented by P. Patagonicus.

Fig. 148. (Mus. Cuming.)

This shell proves to be a variety of P. Strangei from Moreton Bay, described at Pl. IV. Sp. 22.



Pecten , Pt. XXXIII.























PLATE XXXIII.

Species 149. (Mus. Cuming.)

Pecten coruscans. Pect. testá suborbiculari, planiusculá, tenui, inæquiauriculatá, pallidà violascente, prope umbones strigis parvis lacteis obliquis indutá; valvis convexiusculis, consimilibus, dextra pallidiore, costis quatuordecim, serratis, argant sucatis, interstitiis sulcatis; auriculis inæqualibus, argant sulcatis, posticá minimá, obliquá; intus pallestantes.

THE GLITTERING PECTEN. Shell suborbicular, rather flat, thin, unequal-eared, pale violet, covered near the umboes with small oblique white streaks; valves rather convex, very much alike, right valve paler, ribs fourteen, serrated, smartly grooved, interstices grooved; ears unequal, serrately grooved, postcrior ear very small, oblique; pale within.

HINDS, Moll. Voy. Sulphur, p. 61. pl. 17. f. 3.

Hab. Port Anna Maria, Nukuhiva, Marquesas Islands (in seven fathoms, on a sandy floor); Belcher.

The specimens in Mr. Cuming's collection, with the above name, being found to represent two distinct species, I propose to substitute for the former, figured in the preceding plate, the name *P. nux*. The description above printed is quoted word for word from Mr. Hinds, as being the type. The description at Sp. 143 is from the shell figured there.

Species 150. (Mus. Cuming.)

Pecten crotilus. Pect. testá ovatá, altiore quam longá, equivalvi, subæquilaterali, valvis leviter convexis, liris irregularibus angustis dense minute equamatis profuse sculptis; intense purpurascente-rubrá, epareim nigropunctatá; auriculis valde inæqualibus, anticis multo majoribus.

THE SLENDER PECTEN. Shell ovate, higher than long, cquivalve, nearly equilateral, valves slightly convex, profusely sculptured with densely minutely scaled narrow irregular ridge. The purplish-red, sparingly black-dotted; cars unal, the anterior much the larger.

Hab. --- ?

Of very thin substance, the purplish-red showing deeply through in the interior.

Species 151. (Mus. Cuming.)

Pecten Mundus. Pect. testá suborbiculari, tenui, compressá, æquilaterali, æquivalvi, valvis costis quatuor et viginti tenuibus leviter crenatis radiatis, lirá minutá intercurrente; aurantio-crocatá; auriculis valdè inæqualibus, anticis majoribus, subexpansis, per marginem squamatis.

THE NEAT PECTEN. Shell suborbicular, thin, compressed, equilateral, equivalve, valves rayed with twenty-four thin, slightly crenated ribs, with a minute ridge running between them; bright orange-yellow; ears very unequal, front cars larger, rather expanded, scaled along the edge.

Hab. ---- ?

A thin compressed shell, of very decided regular sculp-

Species 152. (Fig. a, b, Mus. Cuming.)

Pecten Dringi. Pect. testă trigono-ovată, altiore quam longă, subobliquă, compressă, inæquilaterali, inæquivalvi, valvis costis octo latinsculis, subdepressis, undique serrato-liratis radiatis; fulvescente, valvă sinistră interdum rufo-nigro punclată et variegată, interdum intense violaceă, rufo unbones versus maculată, vulvă dextră pallidiore; auriculis valde inæqualibus, unticis late oblique expansis.

Deing's Pecten. Shell triangularly ovate, higher than long, rather oblique, compressed, inequilateral, inequivalve, valves rayed with eight rather broad, subdepressed ribs, which are everywhere serrately ridged; light fulvous, left valve sometimes dotted and variegated with red-black, sometimes deep violet, blotched with red towards the umboes, right valve paler; ears very unequal, the anterior broadly obliquely expanded.

Hab. Bathurst Island, north-west coast of Australia; Dring.

A light strongly striated species of rather thin substance, somewhat obliquely expanded, with the front ear rather large and flexuous. Colouring extremely variable.

Species 158. (Mus. Cuming.)

PROTER IDEUS. Pect. testa orbiculari, compresso-conveza,

1, omnibus subnodulosis et pulcherrime orenu-

latis, radiatis, liris valvæ dextræ lævioribus et plus regularibus; purpuruscente-rufá, subiridescente.

THE RASPHERRY PECTEN. Shell orbicular, compressly convex, equilateral, inequivalve, valves rayed with twelve ribs and numerous ridges, all subnodose, and very beautifully crenulated, ridges of the right valve smoother and more regular; purplish-red, subiridescent.

Hab. ---- ?

An extremely characteristic species, of a peculiar submetallic raspberry colour.

Species 154. (Mus. Cuming.)

Pecten vestalis. Pect. testá subtrigono-ovatá, paululum altiore quam longá, depresso-convexá, æquilaterali, sub-æquivalvi, valvis, dextrá subconvexiore, costis octodecim radiatis, costis triangularibus, confertis, lirá serratosquamatá ad summitatem et in sulco interstitiali; rubescente, punctis roseis aspersá, ad umbones lutescente; auriculis valdè inæqualibus.

The vestal Pecten. Shell somewhat triangularly ovate, a little higher than long, depressly convex, equilateral, nearly equivalve, valves, the right rather the more convex, rayed with eighteen ribs, ribs triangular, close-set, with a serrately squamate ridge along the summit and in the interstitial groove; reddish, sprinkled with rose dots, yellowish at the umbocs; ears very unequal.

Hab. West Indies.

Of a delicate blush-red colour, peculiarly angle-ribbed and serrated.

Species 155. (Mus. Cuming.)

Pecten solidula. Pect. testá suborbiculari, solidulá, subplano-gibbosá, ad latera plano-compressá, æquilaterali, subæquivalvi, valvis costis viginti subplanulatis confertis radiatis, interstitiis leviter crenulatis; albidá, lateribus et valvá sinistrá purpurascente maculatis; auriculis grandibus, subæqualibus.

THE RATHER SOLID PECTEN. Shell nearly orbicular, rather solid, rather flatly gibbous, flatly compressed at the sides, equilateral, nearly equivalve, valves rayed with twenty rather flattened close-set ribs, the

interstices between which are slightly crenulated; whitish, sides and left valve spotted with light purple; cars large, nearly equal.

Hab. ---- ?

This has somewhat the appearance of a young P. gibbosus, but it is distinct.

Species 156. (Mus. Cuming.)

Pecten effuegens. Pect. testé ovaté, altiore quam longá, tenuiculá, æquivalvi, subæquilaterali, liris numerosis tenuibus multisquamatis undique nitidè radiotá; aurantio-miniato, purpurascente albi-marginato arcuatim strigatá; auriculis parviusculis, valdè inæqualibus.

THE BRIGHT PECTEN. Shell ovate, higher than long, rather thin, equivalve, nearly equilateral, neatly rayed throughout with numerous thin many-scaled ridges; bright orange-vermilion, archedly streaked with light white-edged purple; ears rather small, very inequivalve.

Шаb. ——?

Of a bright subtransparent orange-vermilion, profusely finely scaled.

Species 157. (Mus. Cuming.)

Pecten Pusio. Pect. testá subtrigino posta, congressione culá, medio gibbosá, subæquilaterati; aprincipaloi, valua liris numerosis, acutis, irregularibus, abrude modulosu et hic illic squamatis, confertim radiatis; albidá, purpurascente profuse punctatá; auriculis valde inæqualibus.

THE CHILD PECTEN. Shell somewhat triangularly ovate, rather compressed, gibbous in the middle, nearly equilateral, equivalve, valves closely rayed with nomerous sharp irregular ridges, somewhat rudely nodulous, and here and there squamate; whitish, profusely dotted with purple; ears very unequal

Ostrea pusio, Linnæus, Syst. Nat. p. 1146.

Pecten pusio, Lamarck.

Hab. Mediterranean.

This shell, which we take to be is quite distinct from P. waring, as

Pecten , Pl.XXXIV.





























PLATE XXXIV.

Species 158. (Fig. 158 and 165, Mus. Cuming.)

Pecten larvatus. Pect. testā subtrigono-ovalā, tenus, subplano-compressā, vix æquilaterali, subæquivalvi, valvis liris numerosis obtusè crenutis, lincisque, densè radiatis; vividè aurantio-crocinā, vel nigro mineoque radiatā, lineis perpaucis albis notatā; auriculis valdè inæqualibus.

THE MASKED PECTEN. Shell somewhat triangularly ovate, thin, rather flatly compressed, scarcely equilateral, nearly equivalve, valves thickly rayed with numerous obtusely crenated ridges and lines; bright orange-saffron, or rayed black and vermilion, marked with a few white lines; ears very unequal.

Hab. Philippine Islands.

The ridges and lines are close-set, and very irregular. The colouring, as may be seen by the two specimens here figured, is most variable, but the white zigzag lines are constant.

Species 159. (Mus. Cuming.)

Pecten Sanguinousneus. Pect. testá ovatá, compressá, convexiusculá, æquilaterali, æquivalvi, valvis costis parvis octo et viginti profusè brevisquamatis confertim radiatis; alhidá, sanguineo-fusco plus minus tinclá et maculatá; auriculis inægualibus.

THE BLOOD-STAINED PECTEN. Shell ovate, compressed, rather convex, equilateral, equivalve, valves closely rayed with twenty-eight small profusely short-scaled ribs; whitish, more or less stained and blotched with blood-brown; cars unequal.

Hab. .

Peculiarly richly coloured and very profusely five-scaled

Species 160. (Mus. Cuming.)

PECTEN TESTUDINEUS. Pect. testé ovaté, æquilaterali, æquivalvi, valvis costis regularibus viginti radiatis, costis confertis, versus marginem conspicus squametis; historial paro-nigro intense variegaté; auriculis valde mégastique.

THE TOR ISE-SHELL PECTEN. Shell of equilateral, equivalve, valves rayed with twenty regular ribs, ribs close-set, conspicuously scaled towards the margin; deeply variegated with yellow brown-black; cars say unequal.

Hab. Amboyna.

A richly marked species, with very much the appearance of tortoise-shell.

Species 161. (Mus. Cuming.)

Pecten fuicatus. Pect. testá suborbiculari, compressá, medio gibbosiusculá, æquivalvi, æquilaterati, valvis costis quinque vel sex et viginti oblusis, ad latera subacutangulis radiatis, costis tenuiserratis, lateralibus minulè squamatis; albidá, rufescente prope marginem sparsim maculatá; auriculis inæqualibus.

THE RUBBED PECTEN. Shell nearly orbicular, compressed, rather gibbous in the middle, equivalve, equilateral, valves rayed with five- or six-and-twenty obtuse ribs which are rather sharp-angled at the sides, ribs very finely serrated, lateral ribs minutely scaled; whitish, sparingly blotched with red near the margin; ears unequal.

Hab. --- ?

The ribs are all more or less arched over with a fine thread of red colour.

Species 162. (Fig. a and b, Mus. Cuming.)

PECTEN BLANDUS. Pect. testá suborbiculari, compressoconvexá, æquivalvi, æquilalerali, valvis costis ad sex et viginti tenuè serratq-squamatis radiatis, interstitiis angustis, costis lateralibus profusè minutè squamatis; crocint vel miniaceá, sațurate aut pallide nebulată; auriculti valde inæqualibus.

THE LLURING PROTEN. Shell nearly orbicular, compressly convex, equivalve, equilateral, valves rayed with about six-and-twenty finely serrately squamate ribs, interstices narrow, lateral ribs profusely minutely scaled; saffron or vermilion, clouded darker or lighter; ears very unequal.

Hab. Australia.

The fine scales in this species are sometimes of a compound character.

Species 168. (Mus. Cuming.)

ROTEN DAUCUS. Peet. teste suboblique orbiculari, sub-

tuor et viginti peculiariter trifariam divisis et profusè squamatis radialis; intus extusque intensè purpureominiaceo, aurantio-tinctá, immaculatá; auriculis inacualibus.

THE CARROT PECTEN. Shell somewhat obliquely orbicular, rather ventricose, equivalve, inequilateral, valves rayed with four-and-twenty peculiarly three-divided profusely scaled ribs; deep purple vermilion, within and without tinged with orange, unspotted; ears unequal.

Hab. Island of Corfu.

Remarkably deep-toned in colour both within and without.

Species 164. (Mus. Cuming.)

Pecten Beticulatus. Pect. testá ovalá, subaltiore quam longá, convexo-compressá, æquilaterali, subæquivalvi, valvis costis duabus et viginti lævibus regularibus radiatis; albidá, maculis purpureo-rufis aspersá, lineis tenuibus arcuatis undique per costas; auriculis subamplis inæquatibus.

THE NETTED PECTEN. Shell ovate, rather higher than long, convexly compressed, equilateral, nearly equivalve, valves rayed with two-and-twenty smooth regular ribs; whitish, sprinkled with blotches of purple-red, with arched lines throughout across the ribs cars rather large, unequal.

Hab. --- ?

The painting of this species is similar in design to that of P. fricatus, but the shell is quite distinct in form.

Fig. 165. (Mus. Cuming.)

This very characteristic species proves on examination to be a variety of *P. larvatus*, Sp. 168, under which head its peculiarity of colouring is noticed.

Species 166. (Mus. Cuming.)

Pecten cloacatus. Pect testá trigono-ovatá, subflabelliformi, subventricosá, æquivalvi, æquilaterali, valvis costis sedecim radiatis, costis elevatis, rotundatis, subnodoso-crenatis, subdistantibus, lateribus interstitusque excavatis; albá, cinereo-carneo tinctá et maculatá; auriculis inæqualibus.

THE GUTTERED PECTEN. Shell triangularly ovate, somewhat fan-shaped, rather ventricose, equivalve, equilateral, valves rayed with sixteen ribs, which are raised, rounded, subnodosely crenated and rather distant, with the sides and interstices excavated; white, stained and spotted with ash-flesh colour; cars unequal.

Hab. Philippine Islands.

An extremely characteristic species, quite distinct from any hitherto described.



Pecten, Pl.XXXV.























PECTEN.

PLATE XXXV.

Species 167. (Mus. Brit.)

Pecten concinnus. Pect. testá trigono-ovatá, valvá sinistrá subplanulatá, costis novem roundatis, valdè elevalis, subdistantibus radialá, interstitiis subampliter
excavatis, costis interstitiisque eleganter minutè squamato-liratis; albidá, costis undique regulariter roscomaculatis; auriculis inæqualibus.

THE PRETTY PECTEN. Shell triangularly ovate, left valve rather flattened, rayed with nine rather distant, rounded, very elevated ribs, with the interstices rather largely excavated, ribs and interstices elegantly minutely scale-ridged; whitish, ribs regularly rose-blotched throughout; cars unequal.

Hab. Red Sea.

An elegantly painted and neatly sculptured shell, of which the only specimens known to me are two valves in the British Museum, both left valves.

Species 168. (Mus. Cuming.)

Pecten argenteus. Pect testá suborbiculari, tenui, pellucidá, compresso-convexá, æquilaterali, subæquivalvi, valvis costis decem rotundatis concentricè striatis radialis, interstitiis latinsculis, decussatim striatis; argenteo-albá, fusco in interstitiis maculatá et punctatá; auriculis æqualibus.

THE SILVERY PECTEN. Shell nearly orbicular, thin, transparent, compressly convex, equilateral, nearly equivalve, valves rayed with ten concentrically striated rounded ribs, interstices rather broad, decussately striated; silvery-white, spotted and dotted with brown in the interstices; cars equal.

Hab. China Sea.

A transparent white shell, dotted in the interstices between the ribs with brown.

Species 169. (Mus. Cuming.)

Pecten Tenellus. Pect. testa ovata, tenuicula, compresso-convexa, aquilaterali, vix aquivalvi, valvis costis quinque lavibus radiație, liris tribus intervenientibus, costa postică extrema squamă magnă ad marginem;
rosea, immaculată, ad latera albipunctală; auriculis
graudibus, expansis, inaqualibus, ad marginem squamatis.

The Delicate Pecten. Shell ovate, rather thin, compressly convex, equilateral, scarcely equivalve, valves rayed with five smooth ribs, with three ridges coming between, the extreme posterior rib with a large scale at the margin; pink, unspotted, white-dotted at the sides; cars large, expanded, unequal, scaled along the margin.

Hab. --- ?

This has the appearance of being an immature shell, but it is, nevertheless, of marked character.

Species 170. (Mus. Cuming.)

Pectes hentiotkusus. Pect. testá trigono-ovatá, subflabelliformi, compressá, aquitaterali, inaquivalvi, valvá sinistrá costis tirisque numerosis grandibus et parvis, profusè noduloso-squamatis, subirregulariter radiatá, valvá dextrá ecostatá, undique tiratá, squamis brevibus, abruptè nodulosis; purpurascente-albá, intensè purpureo hic illic tinctá et maculatá; auriculis valde inæqualibus, flexuosis.

THE SPECKLED PECTEN. Shell triangularly ovate, somewhat fan-shaped, compressed, equilateral, equivalve, left valve somewhat irregularly rayed with numerous large and small ribs and ridges, profusely nodulously scaled, right valve not ribbed, ridged throughout, with the scales short and abruptly nodulous; purplish-white, stained and spotted here and there with deep purple; cars very unequal, flexuous.

Hab. --- ?

A very characteristic new species, easily recognizable by

Species 171. (Mus. Hinds.)

PECTEN FASCICULATUS. Pect. testá latè subtrigoná, planiusculá, tenui, inæquiauriculatá, rufo-violascente, also maculatá, valvis consimilibus, costis parvis, numerosis, eleganter serratis, in fascibus quinque plerumque aggregatis, alteris interstitiis suppletis; auriculis inagnatinectis, argutè serratis, dentatis, intus violascente.

THE UNCHED PECTEN. Shell broadly subtriangular, rather flat, thin, unequal-eared, reddish-violet, spotted with white, valves very like, ribs small, numerous, elegantly serrated, generally aggregated in five unches, the others filling the interstices; cars un-

equal, straight, sharply serrated, toothed, violet within.

HINDS, Moll. Voy. Sulphur, p. 61. pl. 17. f. 4.

In seventeen fathoms, Hab. West coast of Veragua. among sandy mud; Hinds.

A beautiful and delicate shell, traversed by numerous small finely serrated ribs, a large portion of which are gathered into five bunches or bundles, the others being less aggregated, and occupying the interspaces. The auricles differ in size, and are strongly grooved, with intervening sharp ridges. Within the valves are coarsely ribbed, and of a rich peach-colour.-Hinds.

Species 172. (Mus. Hinds.)

Broke Helen Digitatus. Pect. testá subtrigoná, planiusculá, solida, aquiauriculata, pallida, sanguineo transversim nubeculată; valvis consimilibus, costis novem rotundatis sulcatis; umbonibus subplanatis, lavigatis; marginibus minute denticulatis; intus alba.

Shell somewhat triangular, THE FINGERED PECTEN. rather flat, solid, equal-cared, pale, clouded transversely with blood-red; valves very like, with nine rounded grooved ribs; umboes rather flat, smooth; margins minutely denticulated; white within.

HINDS, Moll. Voy. Sulphur, p. 61. pl. 17. f. 2.

Hab. Bay of Guayaquil. In twenty-three fathoms, mud; Hinds.

The description and figure of this and the preceding species, which are unknown to me, are copied from the 'Mollusca of the Voyage of the Sulphur.'

Species 173. (Mus. Cuming.)

PECTEN MULTICOSTATUS. Pect. testá ovalá, tenuiculá, gibbosa, æquilaterali, æquivalvi, valvis costis triginta angustis subdistantibus, obsoletè nodulosis, ad latera subsquamulatis radiatis; intensè miniacea, immaculatá, ad umbones albo marmoratá; auriculis valde inæqualibus.

THE MANY-RIBBED PECTEN. Shell ovate, rather thin, gibbous, equilateral, equivalve, valves rayed by thirty rather distant, narrow, obscurely noduled ribs, finely scaled at the sides; deep vermilion, unspotted, marbled with white at the umboes; ears very unclual.

Hab. New Zealand. A light gibbous deep-coloured shell, rayed with numerous cord-like ribs.

Species 174. (Mus. Cuming.)

Pect. testa ovata, subaltiore quam PECTEN TEXTILIS. longa. æguilaterali, subæguivalvi, valva sinistra plani. ore, ambabus densè irregulariter liratis, liris undique obtuse squamatis; alba, vivide aurantio marmorata: auriculis valde inaqualibus.

THE BROCADED PECTEN. Shell ovate, rather higher than long, equilateral, nearly equivalve, left valve flatter. both valves densely irregularly ridged, ridges obtusely scaled throughout; white, mottled with bright orange; cars very unequal.

Hab. ---- ?

Allied in some respects to P. pusio, but differing in form and sculpture.

Species 175. (Mus. Cuming.)

PECTEN ORMAGIATUS. Pect. testá trigono-ovatá, paululum altiore quam longa, tenni, æquilaterali, subæquivalvi, valvis liris subtilibus gemmulatis undique pulcherrime radiatis; pellucido-carned, ustulato-spadiceo lincta, lineis albis brevibus ad latera sparsim promiscuè notată, valvă dextră pallidiore; auriculis valde incqualibus.

THE FINELY-BEADED PECTEN. Shell triangularly ovate, a little higher than long, thin, equilateral, equivalve, valves very beautifully rayed throughout with fine beaded ridges; transparent flesh tinged with burnt fawn-colour, sparingly promiseuously marked at the sides with short white lines; ears very unequal.

Hab. --- ?

Very delicately and strikingly sculptured.

Species 176. (Mus. Cuming.)

PECTEN TENUIGRANOSUS. Pect. testá ovatá, compressoconvexá, vix aquilaterali, subinaquivalvi, valvis liris numerosis tenuibus, subtiliter noduloso-squamatis, interstitiis peculiariter dense granulatis, radiatis; valva sinistrá rufo-purpurea, dextrá albicante; auriculis valde inaqualibus.

THE FINE-GRAINED PECTEN. Shell ovate, compressly convex, scarcely equilateral, rather inequivalve, valves rayed with numerous thin ridges, finely nodulously scaled, interstices peculiarly granulated; left valve reddish-purple, right valve whitish; ears very uzequal.

Hab. ——?

The sculpture of this species is also peculiar and tinctly marked.

PECTEN

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ERRATA.

Species 134. For P. nobilis read P. gloriosus.

Species 143. For P. coruscans read P. species 159. For P. sanguinolentus read P. saniosus.

Species 170. For P. lentiginosus read P. species 175. For P. gemmulatus read P. gemmeus.

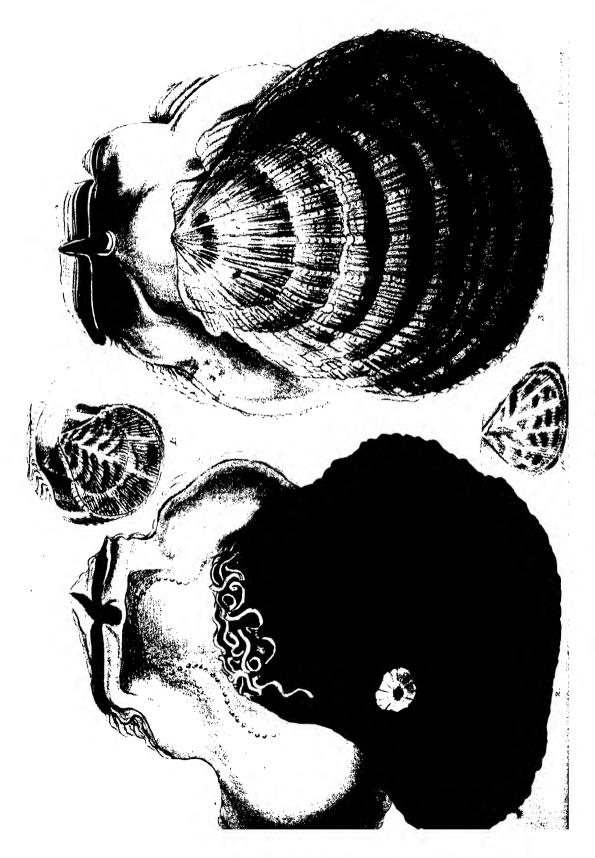
MONOGRAPH

OF THE GENUS

HINNITES.

'And Seas, immeasurably deep,
Which, in their secret holds, do keep
Treasures unknown to human thought,
Treasures by human hands unsought."—C. P.





HINNITES.

PLATE I.

Defrance.

Testa inaquivalore, crassa, subponderosa, valvis viz auriculatis, radiatim liratis. Area cardinalis in valvis ambabus lata, edentula, Level subprofunda oblongá in medio. Impressio muscularis perampla, sublateralis.

Shell inequivalve, adhering, thick, rather ponderous, valves slightly auriculated, radiately ridged. Hinge area in both valves broad, toothless, with a rather deep oblong pit in the middle. Muscular impression verv large, sublateral.

This genus was founded by M. Defrance with two fossil species, and had been received by conchologists, when Mr. Gray discovered that a large bivalve shell in the British Museum, referred by him with a note of doubt to Lima, belonged to it. It was in August, 1826, that Mr. Gray announced this discovery in the 'Annals of Philosophy.' The shell which he had described in the same periodical as Lima? gigantea, he now referred to the fossil genus of Defrance, altering the generic name, for reasons which we think untenable, to Hinnita, and afterwards to Hinnus. Another shell of similar generic character turned up in the old collection of Dr. Goodall, and this Mr. Sowerby described as Hinnites corallinus in the third volume of the 'Zoological Journal.' M. Deshaves and Mr. Sowerby, by reason of the peculiarity of its mode of attachment, referred the Ostrea (Pecten) sinuosus, which is probably identical with the Linnean Ostrea (Pecten) pusio, to Defrance's genus, but the relationship has not been confirmed by subsequent researches. Messrs, Forbes and Hanley have shown, in their 'History of British Mollusca,' that this Pecten lives free when young, and merely attaches itself in the adult state. The shell then takes an irregular form of growth, still preserving its generic characters. The Pecten pusio is represented in the accompanying plate in the state in which it has been called Ostrea and Hinnites sinuosus, but inasmuch as it does not possess the broad, solid, cardinal area and heavy Spondylus-like character of Hinnites, it should not be included in the genus.

The State of the S

Himseles has more of the general character of Spondylus than of Pecten, but the hinge is distinct, being without teeth, and produced into an area equally in both valves. One of the species inhabits the Old World, and the other the New.

Species 1. (Fig 2. Mus. Brit.)

HINNITES CORALLINUS. Hinn. testa subflabelliformi, flexuosa, valde irregulari, area cardinali subangusta; rude scabroso-lira subfimbriata: intense corallio-rubra THE CORAL HINNITES. Shell somewhat fan-shand, flexuous, very irregular, cardinal area rather narray;

rudely scale-ridged, subfrilled; deep coral-red. Sowerby, Zool. Journ. vol. iii. p. 71.

Hab. East Africa; Sowerby.

The outer surface of this minen is very much broken and worm-eaten, but way characteristic, both in respect of sculpture and colour. The interior is remarkable for its conspicuous muscular impression, the surface being sculptured with a strong veinous net-work.

Species 2. (Fig. 3. Mus. Brit.)

HINNITES GIGANTEUS. Hinn. testa ovata, convexa, radiatim scabroso-lirata, liris prope umbones lævibus, nitide binis; aurantio-rufescente, vel albida, intus alba, prope cardinem vivide purpurco-violacea.

THE GIGANTIC HINNITES. Shell ovate, convex, radiately scabrous-ridged, smooth and neatly disposed in pairs near the umboes; orange-reasor whitish, interior white, stained with rich purple-violet near the hinge. GRAY, Annals of Philosophy, 2nd Series, vol. xii. p. 103. Hab. California and Straits of Juan Fernandez.

The ridges of this species, which is of months were oblong growth than the preceding, are here and there at nearly equal distances larger. One of the principal characteristics of the species is the deep purple-violet colouring of the hinge.

MONOGRAPH

OF THE GENUS

M A C T R A.

'Of sea-born kinds, ten thousand thousand tribes
Find endless range for pasture or for sport."—Mallet.



Sowerby del et lith.

Vincent Brooks Ti

MACTRA.

PLATE I.

Genus MACTRA, Linnæus.

Testa ovato-trigona vel transversa, lateribus paulisper hians; umbonibus prominentibus. Dens cardinalis in utrăque valvă compressus, plicato-canaliculatus, cum adjectă foveolă intus prominulă. Dentes laterales duo compressi, utrinque prope cardinem inserti; ligamentum internum, in foveolă cardinali insertum.

Shell ovately triangular or transverse, a little gaping at the sides; umboes prominent. Cardinal teeth in each valve compressed, plicately channelled, with the interlying pit rather prominent within; two lateral compressed teeth inserted on each side near the hinge; ligament internal, inserted in the hinge pit.

There is no genus of bivalves which it is more easy to determine than Mactra. The shell has, with little variation, a characteristic triangular form, more or less transversely ovate or oblong; and the hinge is distinguished by... a prominent central triangular tooth in one valve, which closely interlocks in a corresponding pit in the opposite valve. The Mactrae are mostly void of colour, but some are very prettily tinged and rayed with rose or purple. In sculpture they are also deficient, compared with the Tellinidae or Veneridae, having seldom more than concentric grooves and strize or plait-like ridges. anterior or front half of the shell is, with few exceptions, the shorter, and this is sometimes concentrically grooved and striated while the posterior side is smooth. Beneath the umboes on the anterior side a neat heart-shaped lunule is generally formed, and the strize of the valves mostly converge on the shield of this in a more regular and elegantly developed state. On the posterior side the ligamentary area is more broadly spread, and mostly angled on each side. Some of the Mactra, more especially those inhabiting the Northern Seas, are ponderous and Myalike; the majority of the species inhabiting the tropical seas are thin, some almost transparent, and most elegantly wave-wrinkled and striated. The localities noted in the following monograph will show that the genus is pretty evenly distributed over the globe, from the Arctic Seas along both sides of the African continent to Van Diemen's Land in the castern hemisphere, and from the North American Seas to Panama and Columbia in the western.

Lamarck enumerated about thirty species in his Anim. sans vert., but several have been described subsequently by different authors, and the genus has lately undergone

a complete revision by M. Deshayes, who has been staying in this country for the purpose, while assisting in the arrangement of Mr. Cuming's and our national collections. The species are brought in the present monograph to a hundred and twenty-five in number. It will be seen that several well-marked groups are included in this number, all belonging to the Lamarckian genus Mactra, but denominated as genera by the more advanced conchologists, under the names of Mulinia, Schizodesma, Cypricia, Raeta, Standella, Spisula, etc., as will be seen by the synonyms.

Species 1. (Mus. Brit.)

MACTRA TRIANGULARIS. Mact. testá trigono-elonyatá, compressá, solidá, inæquilaterali, latere antico panto breviore, ambobus compresso-acuminatis, transversim plicato-liratá, fuscescente-albá, maculis fuscescentibus parvis sparsim aspersá; umbonibus parvis, angularibus, approximatis; lunulá areáque peramplis, lanceulato-ovatis, medio elevatis, fusco-strigatis.

The triangular Mactra. Shell trangularly elongated, compressed, solid, inequilateral, anterior side a little the shorter, both sides compressly acuminated, transversely plicately ridged, brownish-white, sparingly sprinkled with small brown spots; umboes small, angular, approximated; lunule and area very large, lanceolately ovate, raised in the middle, streaked with brown.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vi. p. 103. Enc. Méth. pl. 253. f. 3 α, b, c. Spisula triangularis, Gray.

Hab. ---- ?

An extremely rare species, of a peculiarly triangularly elongated wedge-shape, sprinkled with small red-brown spots.

Species 2. (Mus. Cuming.)

MACTRA VENERIFORMIS. Mact. testá orbiculato-subtrigond, inflatá, convexissimá, cordiformi, subæquilaterali,
antice oblusá, postice longiore, angulatá, transversim
regulariter striatá, ad umbones lævigatá, squalide albá
vel griseá, postice intus extusque violaceo-tinctá; umbonibus tumidis, prominentibus, oblique cordatis; lunulá areáque latis, ovatis, regulariter plicatis; sinu
pallii lato, subsemicirculari.

THE VENUS-SHAPED MACTRA. Shell orbicularly subtriangular, inflated, nearly convex, heart-shaped, nearly equilateral, anteriorly obtuse, posteriorly angled, transversely regularly striated, smooth at the umbocs, dirty-white or grey, posteriorly violet-tinged within and without; umboes swollen, prominent, obliquely cordate; lunule and area broad, ovate, regularly plaited; sinus of the mantle broad, subsemicircular.

DESHAYES, Pro. Zool, Soc. 1854.

Hab. China Sea and Japan.

A tumid heart-shaped species, approaching to the form of Gnathedon.

Species 3. (Mus. Cuming.)

Mactra Quadrangularis. Mact. lestá ovato-subquadrangulari, tenui, tumidá, cordiformi, subæquilaterali, transversim plicato-liratá, squalidè griseá, epidermide flavescente tenuissimá indutá, latere antico subtruncato, lato, posticum subæquante; umbonibus tumidis, obliquè cordatis, approximatis; lunulá areáque indistinctis, eleganter plicatis; sinu pallii brevi, subtrigono, apice obtuso.

THE QUADRANGULAR MACTRA. Shell ovately subquadrangular, thin, swollen, heart-shaped, nearly equilateral, transversely plicately ridged, dirty-grey, covered with a very thin yellowish epidermis, anterior side slightly truncated, broad, nearly equal to the posterior; umboes swollen, obliquely cordate, approximated; lunule and area indistinct, elegantly

plicated; sinus of the mantle short, subtriangular, obtuse at the top.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. China.

A thin Cardium-like species, neatly ridged across, except in the vicinity of the umboes, which are smooth.

Species 4. (Mus. Brit.)

MACTRA MAXIMA. Mact. testă perampliter inflată, ovalosubrhombeă, inæquilaterali, transversim striată et rugosă, albidă, epidermide nigro-fuscă marginem versus indută, antice anguste hiante, postice latissime hiante; umbonibus magnis, obtusis, approximatis; sinu pallii lato, profundo, horizontali.

THE VERY LARGE MACTRA. Shell very largely inflated, ovately subrhomboidal, inequilateral, transversely striated and rough, whitish, covered towards the margin with a black-brown epidermis, anteriorly narrowly gaping, posteriorly very broadly gaping; umboes large, obtuse, approximated; sinus of the mantle broad, deep, horizontal.

Lutraria maxima, Middendorf, Malac. zool. Russ. part 3 pl. 66. pl. 19. f. 1-4.

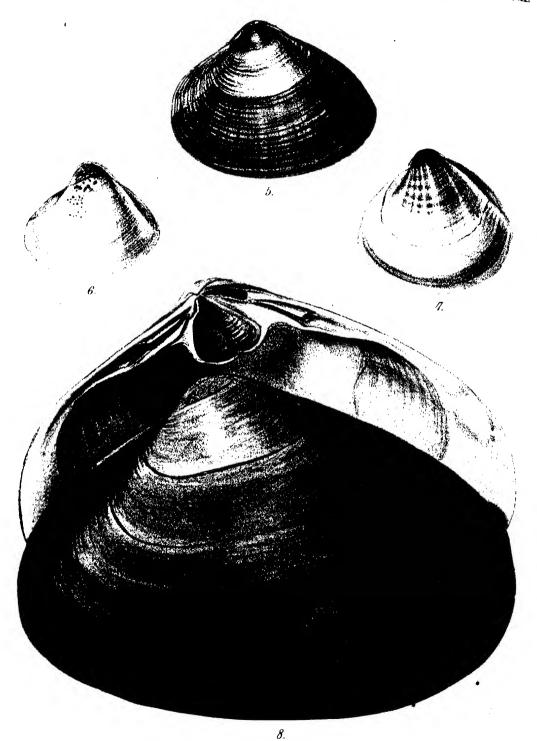
Lutraria inflata, Dunker.

Tresus maximus, Gray.

Hab. California.

This fine species, the largest of the genus, is chiefly remarkable for the wide gaping of its posterior end, which gives to the shell a *Panopæa*-like form.

(Commence)



MACTRA.

PLATE II.

Species 5. (Mus. Cuming.)

Mactra sulcataria. Mact. testá ovato-transversá, subaquilaterali, turgidulá, utráque extremitate æqualiter
obtusá, transcersim sulcatá, ad umbones lævigutá, flavá,
umbonibus depressis, violaceis, albo radiatis; tunulá
areáque magnis, eleganter plicatis; valvis intus alboflavescentibus; cardine augusto, fossulá ligamenti obtigná; dentibus lateralibus compressis, brevibus.

THE GROOVED MACTRA. Shell ovately transverse, nearly equilateral, rather swollen, equally obtuse at each extremity, transversely grooved, smooth at the umboes, yellowish, umboes depressed, violet, white-rayed; lunde and area large, elegantly plaited; valves whitish-yellow within; hinge narrow, ligamentary pit oblique; lateral teeth compressed, short.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. --- ?

Chiefly distinguished by its transverse concentric grooves, which converge neatly on each side in the area and hunde.

Species 6. (Mus. Cuming.)

Mactra cordiformis. Mact. testá subtrigoná, tenui, centricosá, vix æquilaterali, extremitate posticá subproductá, transcersim minutè striatá, umbones versus lecibus lunulá arcáque subamplis, subtiliter plicatoliralis; flavescente-albá, umbones versus ferrugineofusco sparsim tinctá et marmoratá, intus albá.

The Heart-Shaped Mactra. Shell subtriangular, thin, ventricose, scarcely equilateral, posterior extremity rather beaked, transversely minutely striated, smooth towards the umboes; lunule and area rather large, delicately plicately ridged; yellowish-white, sparingly mottled and stained with rust-red towards the umboes, white interiorly.

DESHAYES, Pro. Zool. Soc. 1854.

A thin ventricose subtriangular species, finely striated, almost smooth, the striæ gathering into the area and lunule in fine close-set plait-like ridges. The shell is of a yellowish-white, zigzag-mottled, and stained about the unbocs with light rust-red.

Species 7. (Mus. Cuming.)

MACTRA INFLATA. Mact. lestá subtrigono-ovatá, parum tumidá, vix æquilaterati, latere antico breviusculo, postico subangulato-truncato; lunulá indistinctá, areá magná; albidá, violascente tinctá et radiatá, umbonibus violaceis, intus albá.

The inflated Mactra. Shell somewhat triangularly ovate, but little swollen, scarcely equilateral, anterior side rather short, posterior rather angularly truncated; lunule indistinct, area large; whitish, stained and rayed with pale violet, umboes violet, interior white.

Brown, Philippi, Enum. Moll. Siciliae, p. 11. pl. 3. f. 1. Hab. Naples.

It is somewhat doubtful whether this is not a variety of the *M. stultorum*, though more solid and compressed than the typical form of that species.

Species 8. (Mus. Cuming.)

MACTRA SOLIDISSIMA. Mact. testá transversè oblongá, crassiusculá, sordidè albá, epidermide flavescente-fuscá indutá, inæquilaterali, latere postico longiore, paululum hiante; lunulá areáque subindistinctis; foveá cardinali peramplá, triangulari, impressione pallii posticè indentatá.

THE VERY SOLID MACTRA. Shell transversely oblong, rather thick, dirty-white, covered with a yellowish-brown epidermis, inequilateral, posterior side the longer, a little gaping; lunule and area rather indistinct; hinge-pit very large, triangular, impression of the mantle indented posteriorly.

CHEMNITZ, Conch. Cab. vol. x. pl. 170. f. 1656.

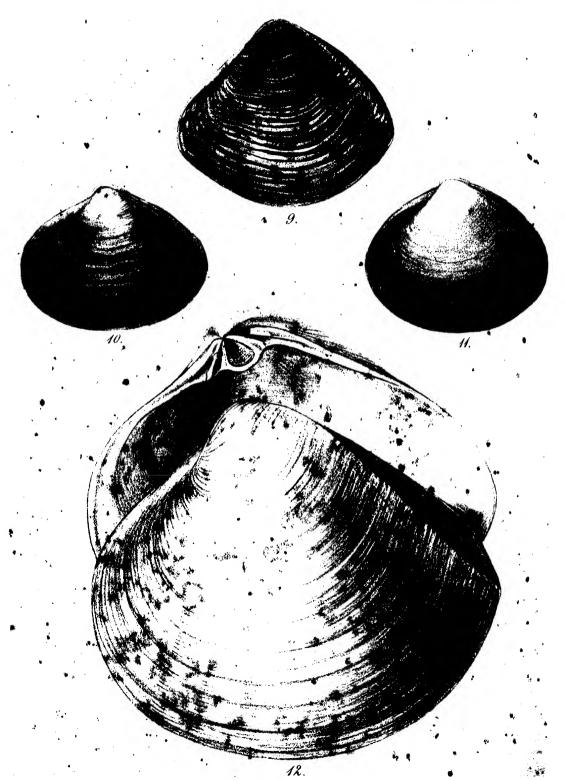
Mactra gigantea, Lamarck.

Hab. United States (about sandy beaches); Gould.

Dr. Gould, of Boston, United States, describes this large species as living abundant about the sandy beaches of Massachasetts. At low water it is dug out of the sand with shovels; at higher tides, when the shell is open, the fishermen wade into the water, thrusting a pointed stick into the sand before them as they walk along. Whene the tick massachaset between the valves, the animal closes the shell upon a not is drawn up.



Mactra, Pl. III:



MACTRA.

PLATE III.

Species 9. (Mas. Cuming.)

MACTRA RUFESCENS. Mact. testá ovato-trigona inaquitaterali, crassá, solidá, lateribus planá et subatividatá, t
transcersim sulcato-plicatis, plicis irregulariter fanusu-corrugatis; albá, rufescente plus minus tinctá, ad
muhunes indistinctè radiatá, latero catico attenuato,
subrostrato, postico angulato; aris lunuláque maynis, flexurá circumdatis, intus a sigu pallii brevi;
dentitus cardinalibus validis.

THE REDDISH MACTRA. Shell ovately triangular, inequilateral, thick, solid, flat and rather angled at the
sides, transversely groove-plaited, plaits irregularly
flexuously wrinkled; white, more or less stained with
red, indistinctly rayed at the unbocs, anterior side,
attenuated and a little beaked, posterior angled; area
and lumule large, surrounded with a flexure, interior
white, sinus of the mantle thort; cardinal teeth
strong.

LAMARCK, Anim. sans vert. (Deshayes'edit.) vol. vi. p. 102. Hab. Van Diemen's Land.

A solid flexuously wrinkled shell, having very much the form of a gibbous *Crassatella*, but without the rich brown epidermis characteristic of that genus.

Species 10. (Mrs. Curning.)

Mactra sericea. Mact. testa orato-transversa, tenui, compressa, medio tumidiuscula, subaquilaterda latere untico rotundato, postico subattenuato, paululum iti nute, tavigita, versus margiren tenuistriata, alba, epidermide fuscescente exicea indula; area tunulaque ric concexis, subtiliter plicato-striatis, um cis, ad apices violaceis; casadije angusto, tentian la teralibus elongatis, fossula pertanda, sint pallii oblique ascendente.

THE SILKY MACTRA. Shell oracle transferse, thin, compressed, rather swollen in the middle, namely equitateral, anterior side rounded, posterior rather attenuated and a little gaping, smooth, finely, striated towards the margin white, covered with a light prown silky epidermis; free and locate scarcely convex, finely plicately striated, uniboes small, violet-tinged at the tips; him is not sw, lateral to be clongated, pit deep, sinus of the market oblinely ascending.

DESHAYES, Pro. Zool. Soc. 1854.

Hab.

A thin compressed transverse species, rather swollen towards the unboes, covered with a light brown silky epidermis. Unboss violet at the tips.

Species 11. (Mus. Cuming.)

MACTRA EPIDERMIA. Mact. testá ocato-transpersá, tenni, compressá, albidá, epidermide fusocscente sericeá indutá, posequilaterati, latere antico rotundato, postico sublongiore, pantulms flexuoso-carmutato; tunulá areaque angustis, elonquits.

THE CLOTHED MACTRA. Shell evately transverse, thin, compressed, whitish, covered with a light brown silky epidermis, nearly equilateral, anterior side rounded, posterior rather longer and slightly flexuously keeled; lunule and area narrow, elongated.

DESHAYES, Pro. Zool. Soc. 1854. Hab. Faro, Portugal.

A thin compressed species, slightly flexuously keeled down the posterior side, covered with a light brown silky epidermis.

Species 12. (Mus. Curling.)

MACTRA STRIATURA, Mact. testa ovato-corduta, ventri coia, tennicula, candida, prifermide tennissime induta, inaquilaterali, latere attio rotundalo, postico suban-sudato-producto, hidrate, autiliter irregulariter concentrio striala, umbonibus approximatis, corragato-plicata; cardino reviusculo, forea subcirculari.

THE FINELY STRIATES MACTRA. Shall ovately heart-shaped, ventricose, rather thin, white, covered with a very slight epidemia inequilateral, anterior side rounded, posterior subangularly produced and gaping, finely irregularly concentrically striated, umboes approximated, corrugately plaited; him rather short, pit subcircular.

LAMARCK, Anim. sangwert. (Peshayes adit.) volsei. p. 98.

Enc. Méth. pl. 455. 7. h

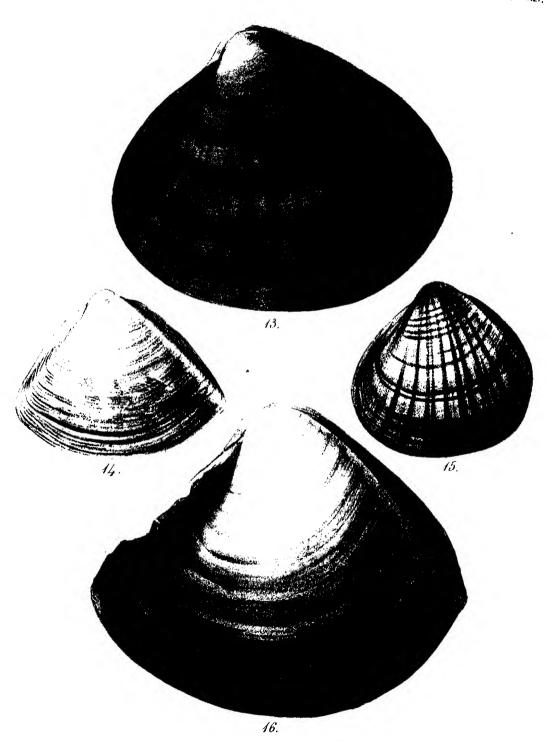
Spisula striatella, Gray.

Mactra albina, Deshayes.

-Hab. ----

A fine large w ticular epidermis, the umboes. y wrinkin-plaited about

Mactra, PLIV



MACTRA

PLATE IV.

Species 13. (Mus. Cuming.)

MACTRA GLAUCA. Mact. testá ovato-transversá, tenuicula, tumidinsculá, subæquilaterali, sub epidermide flavidá vel squalidè fuscescente, pallidè glaucá, radiis helvis numerosis ornatá; lunnlá areáque indistinctis, umbonibus parvis, tumidiusculis, approximatis, interdum pullidè violaceis; dentibus lateralibus elonyatis, lamellaformibus, in valvá dextrá duplicibus; sinu pallii latissimo, breci, semicirculari.

THE GLAUCOUS MACTRA. Shell ovately transverse, rather thin, somewhat swollen, nearly equilateral, smooth, pale glaucous, ornamented with numerous light red rays beneath a yellowish or dirty-brown epidermis; lunde and area indistinct, umboes small, rather swollen, approximated, sometimes violet-tinged; lateral teeth clongated, lamelliform, double in the right valve; sinus of the mantle very broad, short, semicircular.

Born, Mus. Cass. Vindobonensis, p. 51. pl. 3. f. 11, 12.

Mactra heleacea, Chemnitz.

Mactra Neapolitana, Poli.

Hab. European Seas.

The epidermis of this well-known European species is of a close fibrous silky character.

Species 14. (Mus. Cuming).

Mactila Mouilatera. Mact. testă triangulari, aquilaleruli, tumidă, lavigată, antice striută, albo-griseă, cuticulă fluvescente indută, antice posticeque angulată, latere postico plano, lato, angulo acuto circumscripto; lunulă permagnă, depressă, cum aream, lavigată; valvis crassis, intus nitidis, albo-griseis; cardine angusto, crasso, brevi; dente cardinali parvo; dentibus lateralibus crassis, hrenibus, antico longiore; sinu pallii lato, profundo, semielliptico,

The Equilateral Mactra. Shell triangular, equilateral, swollen, smooth, striated anteriorly, whitishgrey, covered with a yellowish cuticle, angled anteriorly and posteriorly, posterior side flat, broad, forming a sharp angle; lunule very large, depressed, and, with the area, smooth; valves thick, shining within, whitish-grey; hinge-narrow, thick, short; cardinal tooth small; lateral teeth thick, short, anterior the longer; sinus of the mantle broad, deep, semielliptic.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. New Zealand; Earl.

 Λ solid triangular shell, *Donax*-like on the posterior

side, and bearing some resemblance in general aspect to M. Spengleri.

Species 15. (Mus. Cuming.)

Mactra stultorum. Mact. testá orato-subtrigoná, æquitaterali, læcigatá, interdum hic illic obsoletè sulcatá, violaceo-cinereá, rufescente tinctá et radiatá, umbonibus brecibus, approximatis; area gibbosiusculá, augulo obtusissimo circumscriptá; intus violaceá.

The roots' MacTra. Shell ovately subtriangular, equilateral, smooth, sometimes here and there obsoletely grooved, violet-ash, tinged and rayed with pale red, umboes short, approximated; area rather gibbous, surrounded by a very obtuse angle; violet in the interior.

Cardium stuttorum, Linnæus, Syst. Nat. (10th edit.) p. 681.

Mactra stullorum, Linnaeus (Syst. Nat. 12th edit.).

Mactra rotundata, Gmelin.

Trigonella radiata, Da Costa.

Tellina radiata, Pennant.

Mactra lactea, Poticz and Michaud.

Mactra solida, Payraudeau.

Hab. European Seas.

This commonest of all species ranges throughout the seas of Europe, from Norway to the Mediterranean.

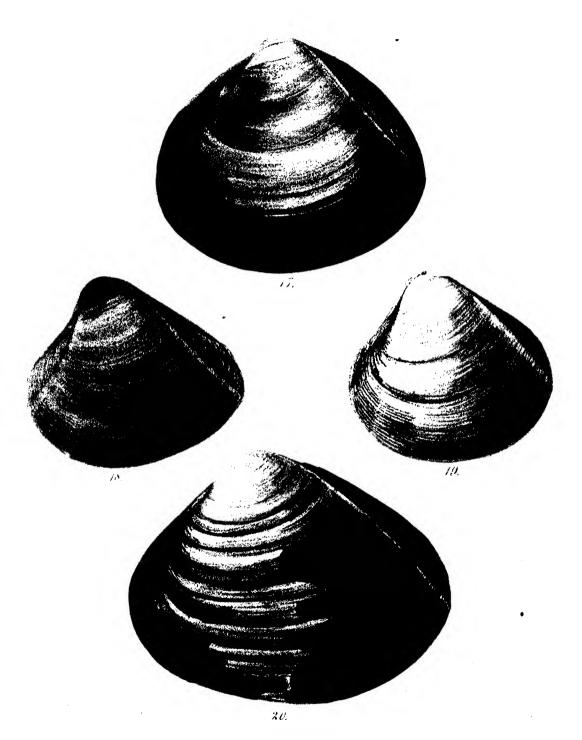
Species 16. (Mus. Cuming.)

MACTRA EXOLETA. Mact. trstå orato-transverså, obliquè cordatå, tenni, ventricoså, læri vel subtilissimè striatå, epidermide tenni fulvå corneå indutå, latere antico attenuato, compressiusculo, cuneiformi, postico lato, obliquè angulato, ad angulum tennicarinato; lunulå inconspicuå, in medio cristatå; areå peramplå.

THE WORN MACTRA. Shell ovately transverse, obliquely cordate, thin, ventricose, smooth or finely striated, covered with a thin fulvous horny epidermis, anterior side attenuated, rather compressed, wedge-shaped, posterior broad, obliquely angled, slightly keeled at the angle; lunule inconspicuous, crested in the middle; area very large.

GRAY, Mag. Nat. Hist. 1837, p. 872. Hab. Cape Horn and West Columbia.

A very light ventricose species, peculiarly cordately impressed on the anterior side, with the margins of the valves rising through the centre of the lunule into an elevated crest. The epidermis is of a thin horny deciduous character.



MACTRA

PLATE V.

Species 17. (Mus. Cuming.)

MACTRA DISCORS. Mact. testă rotundato-ovată, subtrigonă, crassiusculă, æquilaterati, regulariter convexă,
tarigută, grisco-albă, epidermide nigricante-fască versus marginem indută, latere postico subplanutato, augulo obtuso subtiliter carinulato circumscripto, umbonibus parcis, confertim approximatis; lunulă areăque
plicato-striutis; sinu pallii brevissimo, lato, semicirculari.

The Harsh Mactra. Shell rotundately ovate, somewhat triangular, rather thick, equilateral, regularly convex, smooth, greyish-white, covered towards the margin with a blackish-brown epidermis, posterior side rather flattened, surrounded with a slightly keeled obtuse angle, umboes small, closely approximated; lunule and area plicately striated; sinus of the mantle very short, broad, semicircular.

GRAY, Faun. of New Zealand, p. 251. Mag. Nat. Hist. . 1837, p. 371.

Hah. New Zealand.

Of rather solid rounded proportions, stone-white, here and there faintly rust-tinged, covered near the margin with a dirty black-brown epidermis.

Species 18. (Mus. Cuming.)

Mactra Meretriciformis. Mact. testă orato-trigonă, tenuivată, rentricosissimă, cordiformi, concentrice tenuistriatii, striae în oreă lunulăque plicato-elecutis, sordide albă, epidermide fuscescente indută, umbonibus atrociolaceis, latere antico rotundato, postico subelongatorostrato, intus lilacină; cardine angusto, in medio prominente; dentibus lateralibus lamellosis; sinu patlii brevi, luto, vie inflexo.

The Meretrix-shaped Mactra. Shell ovately triangular, rather thin, very ventricose, heart-shaped, concentrically finely striated, striæ plicately raised in the area and lumule, dirty-white, covered with a brownish epidermis, umboes blackish-violet, anterior side rounded, posterior somewhat elongately beaked, interior lilae; hinge narrow, prominent in the middle; lateral teeth lamellous; sinus of the mantle short, broad, scarcely inflected.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Port Essington; Jukes.

The name given to this species is intended to denote its general external resemblance with the Cutherea meretrix.

Species 19. (Mus. Cuming.)

Mactra obbsa. Mact testá orato-trigoná, subcordiformi, crassinsculá, rentricosá, lavigatá, albá, epidermide fuscescente indutá, latere antico obtuso, subangulato-productá; areá lunuláque plicato-striatis, umbonibus approximatis; sinu pallii brevi, lato, semielliptico; dentibus lateralibus compressis.

THE STOUT MACTRA. Shell ovately triangular, somewhat heart-shaped, rather thick, ventricose, smooth, whitish, covered with a light brown epidermis, anterior side obtuse, posterior subangularly produced; area and lunule plicately striated, umboes approximated; sinus of the mantle short, broad, semi-elliptic; lateral teeth compressed.

DESHAYES, Pro. Zool. Soc. 1854.

Hab, Torres Straits, North Australia; Jukes.

Somewhat resembling the preceding species in form, though perfectly distinct in detail, more solid, ivory-white about the umboes, and less beaked posteriorly.

Species 20. (Mus. Cuming.)

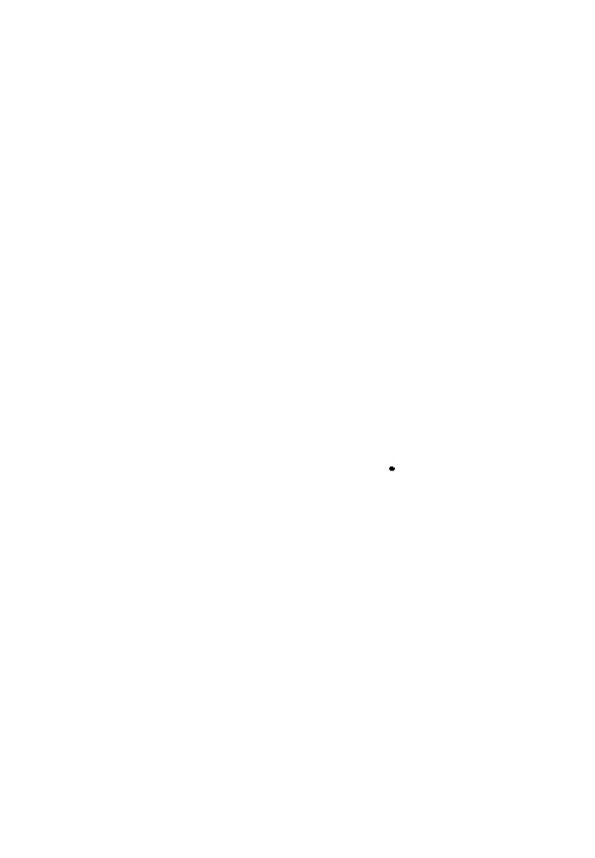
Mactra velata. Mact. testá ovato-oblongá, subtrigoná, crassiusculá, opaco-albá, ferruginco-tinctá, epidermide atro-fuscá indutá, inæquilaterali, utrinque hiante, latere postico subcarinulato; areá lunuláque subangustis, umbonibus confertim approximatis; dentibus lateralibus brevibus, foveá ligamenti amplá.

THE CLAD MACTRA. Shell ovately oblong, subtriangular, rather thick, opake-white, rust-tinged, covered with a black-brown epidermis, inequilateral, gaping at each end, posterior side slightly keeled; area and lunule rather narrow, umboes closely approximated; lateral teeth short, ligamentary pit large.

Philippi, Zeitschrift für Malac. 1848, p. 153. Abbild. vol. iii. pl. 3. f. 5.

Hab. Panama (on the reef); C. B. Adams.

A rather solid rust-tinged opake-white shell, covered with a rather thick dirty black-brown fibrous epidermis.



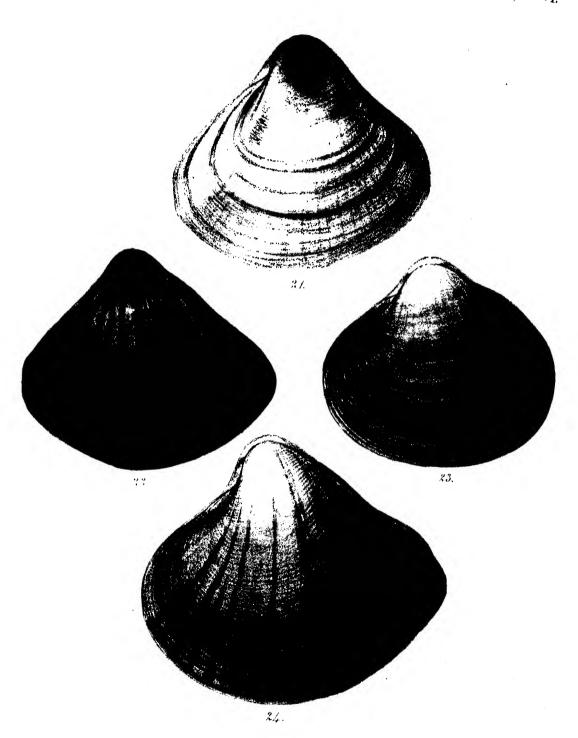


PLATE VI.

Species 21. (Mus. Cuming.)

Mactra tumida, Mact. testa ovato-trigona, ventricosissima, tumida, tenuicula, irregulariter transversim striata, versus umbones lævigata, extremitatibus angulata, anticè subobtusa, albo-flavescente, ad umbones violaceis; umbonibus cordatis, subapproximatis; sinu pallii brevi, lato, obliquè ascendente.

THE SWOLLEN MACTRA. Shell ovately triangular, extremely ventricose, swollen, rather thin, irregularly transversely striated, smooth towards the umboes, angled at the extremities, anteriorly a little obtuse, whitish-yellow, violet at the umboes; umboes heart-shaped, rather approximated; sinus of the mantle short, broad, obliquely ascending.

CHEMNITZ, Conch. Cab. vol. vi. p. 218. pl. 21. f. 210-212.

Mactra turgida, Gmelin.

Hab. Island of St. Thomas, West Indies; Cuming.

A plain smooth largely swollen species, of a whitishyellow cast, tinged at the umboes with violet.

Species 22. (Mus. Cuming).

Macta antiquata. Mact. testă trigonă, inflată, solidiusculă, aquilaterali, extremitatibus subattenuată, transversim dense tenuissime striată, pallide spadiceă, subtiliter albiradiată, ad umbones intense violaceă; tunulă areaque subgrandibus, eleganter plicato-striatis, intus violuscente; sinu pallii lato, rotundato.

THE ANCIENT MACTRA. Shell triangular, inflated, rather solid, equilateral, subattenuated at the extremities, transversely densely very finely striated, light fawn-colour, finely white-rayed, deep violet at the umboes; lunule and area rather large, elegantly plicately striated, interior violet; sinus of the mantle broad, rounded.

Spengler, Skriv. Naturch. Selsk. vol. v. part 2. p. 102.

Mactra violacea australis, Chemnitz.

Mactra Chemnitzii, Gray.

Hub. Bay of Manilla; Cuming.

A more compressed and solid species than the preceding, faintly white-rayed, with very deep-stained violet umbocs.

Species 23. (Mus. Cuming.)

MACTRA LARGILIAERTI. Mact. testá ovato-trigoná, subæquilaterali, lumidá, posticè hiante, sub epidermide nitente, olivaceo-flavá, radiis angustis violaceis pictá;
areá lunuláque planiusculis, eleganter plicato-striatis;
ligamento externo valdè conspicuo, laminá ab interno
diviso.

LARGILLIERT'S MACTRA. Shell ovately triangular, nearly equilateral, swollen, posteriorly gaping, olive-yellow, painted with narrow violet rays beneath a shining epidermis; area and lunule rather flat, elegantly plicately striated; outer ligament very conspicuous, divided by an internal lamina.

Phillippi, Zeitschrift für Malac, 1848, p. 162. Abbild. und Besch, Conch. vol. ü. p. 135. pl. 3. f. 1.

Hab. Gaboon, West Africa.

Of a peculiar swollen transverse form, covered with a shining yellow epidermis.

Species 24. (Mus. Cuming.)

MACTRA CUMINGII. Mact. testá ovato-trigoná, tenui, ventricosissimá, cordiformi, subæquilaterali, transversim irregulariter obsoletè striatá, cuticulá tenui flavescente fibrosá pellucidá indutá, albá, incarnato-rosco distanter radiatá, latere antico rotundato, postico peculiariter compresso-rostrato; umbonibus tumidis, cordatis, subapproximatis; lunulá latiusculá, areá angustá, elongatá; sinu pallii lato, brevissimo.

Cuming's Mactra. Shell ovately triangular, thin, very ventricose, heart-shaped, nearly equilateral, transversely irregularly obsoletely striated, covered with a thin yellowish fibrous pellucid cuticle, white, distantly rayed with flesh-rose, anterior side rounded, posterior peculiarly compressly beaked; umboes swollen, cordate, rather approximated; lunule rather broad, area narrow, clongated; sinus of the mantle broad, very short.

DESHAYES, Pro. Zool. Soc. 1854. Hab. Moluccas.

An exquisitely delicate and characteristic species, light and ventricose, compressly beaked on the posterior side, ivory-white, marked with faint distant flesh-rose rays, and covered with a peculiar linear silky fibrous epidermis.





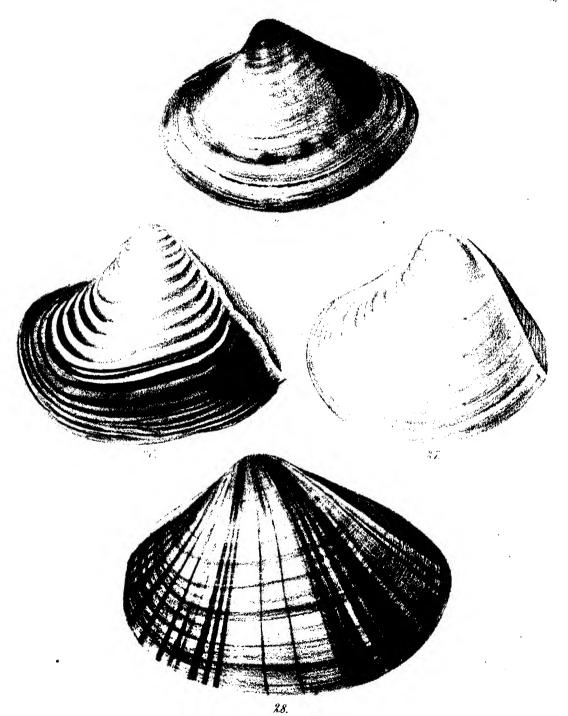


PLATE VII.

Species 25. (Mus. Cuming).

MACTRA SUBROSTRATA. Mact. testá oblongo-transversá, tumidá, inæquilaterali, striis transversis lineisque radiantibus subtilibus impressis decussatá, fulvo-griseá; umbonibus violaceis; latere antico rotundato, postico subrostrato, hiante; lunulá planiusculá, area lanceolatá, excavatá.

THE SLIGHTLY-BEAKED MACTRA. Shell oblong-transverse, swollen, inequilateral, decussated with transverse strice and fine depressed radiating lines, fulvous grey; umboes violet; anterior side rounded, posterior slightly beaked, gaping; lunule rather flat, area lanceolate, excavated.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Moluccas.

Very closely allied to *M. violacea*, but more oblong and swollen, and slightly beaked at the posterior extremity.

Species 26. (Mus. Cuming.)

Macta plicataria. Mact. testă transverse subtrigonă, compressă, inaquilaterali, concentrice irregulariter subflexuose plicato-costată, oblique minutissime striată,
pellucido-albă, diaphană, epidermide tenui fuscă versus
marginem indută; latere antico subproducto, rotundato, postico angulato, plicato-carinato; lunulă lanceolato-ovată, area peramplă, ambabus lævibus; umbonibus
parvis.

The Plaited Mactra. Shell transversely subtriangular, compressed, inequilateral, concentrically plicately ribbed, obliquely very minutely striated, transparent white, diaphanous, covered towards the margin with a thin brown epidermis; anterior side rather produced, rounded, posterior angulated, plicately keeled; lunule lanceolately ovate, area very large, both smooth; uniboes small.

LINNEUS, Syst. Nat. (12th edit.) p. 1125.

Hah. Island of Sumatra.

This fine species is strongly plait-ribbed throughout, the plaits and interstices being very minutely obliquely striated across.

Species 27. (Mus. Cuming.)

MACTRA LÆVIS. Mact. testå ovato-triangulari, inæqui-

laterali, candidissimá, nitente, irregulariter transversim minutissimè striatá, ad umbones plicatá, anticè posticèque latè plicatá, in medio lævigatá; latere antico subproducto, rotundato, postico truncato, plicato-angulato; lunulá lanceolato-ovatá, areá peramplá, excavatá, ambabus lævibus; sinu pallii brevissimá, apice obluso, obliquè triangulari.

THE SMOOTH MACTRA. Shell ovately triangular, inequilateral, very white, shining, irregularly transversely very minutely striated, plaited at the umboes, broadly plaited anteriorly and posteriorly, smooth in the middle; anterior side rather produced, rounded, posterior truncated, plicately angled; lunule lanceolately ovate, area very large, excavated, both smooth; sinus of the mantle very short, obtuse at the top, obliquely triangular.

CHEMNITZ, Couch. Cab. vol. vi. p. 214. pl. 21. f. 205 and 206.

Mactra striatula, pars, Gmelin.

Mactra subplicata, Lamarck.

Mactra Spengleri, Born (not of Linnæus).

Hab. Island of Samar, Philippines; Cuming.

Distinguished by a faint row of ripple-like plaits descending on each side the umboes.

Species 28. (Mus. Cuming.)

MACTRA HIANS. Mact. testá oblongo-ovatá, subtrigoná, tenniculá, inæquilaterali, transversim densè minutè striatá, livido-albá, fulvo-rufo radiatá, ad umbones violaceo tinclá; latere antico subtruncato, postico longiore, rotundato, hiante; lunulá lanceolato-ovatá, areá angustá, leviter rugoso-angulatá.

THE GAPING MACTRA. Shell oblong-ovate, subtriangular, rather thin, inequilateral, transversely densely minutely striated, livid white, rayed with fulvous-red, violet-tinged at the umboes; anterior side subtruncated, posterior longer, rounded, gaping; lunule lanceolately ovate, area narrow, slightly rugosely angled.

PHILIPPI, Abbild. und Besch. Conch. Mactra, pl. 2. f. 1. Hab. Island of Mindanao, Philippines; Cuming.

A fine ruddy-rayed species, of rather thinnish substance, gaping at the posterior end.



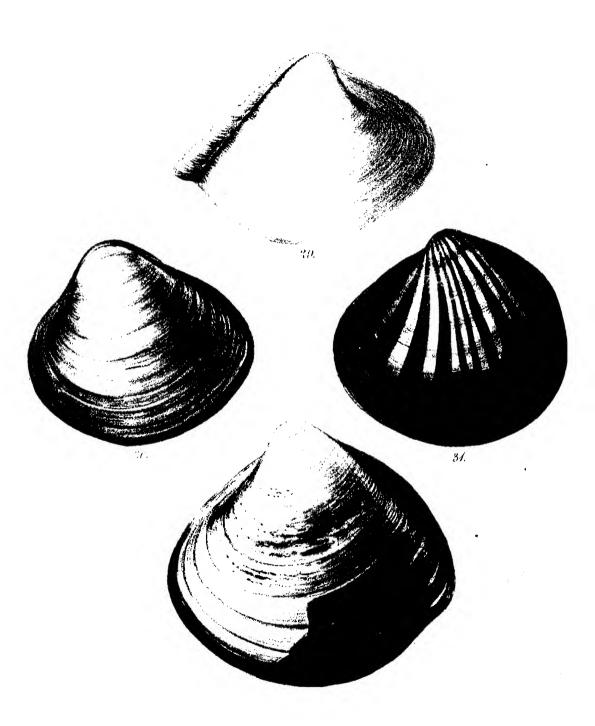


PLATE VIII.

Species 29. (Mus. Cuming.)

MACTRA ALATA. Mact. testá ovato-trigoná, obliquá, convexá, inæquilaterali, transversim irregulariter minutè striatá, candidissimá, pellucidá, epidermide tenui stramineá versus marginem indutá; latere antico subattenuato, postico latiore, angulato, ad angulum cariná foliaceá lamellari alato; umbonibus acutè angulatis; tunulá indistinctá, medio valdè elevatá, areá peramplá, plano-excavatá.

The Winged Mactra. Shell ovately triangular, oblique, convex, inequilateral, transversely irregularly minutely striated, very white, transparent, covered towards the margin with a light straw-coloured epidermis, anterior side subattenuated, posterior broader, angled, winged at the angle with a lamellar foliaceous keel; umboes sharply angled; lunule indistinct, much raised in the middle, area very large, flatly excavated.

Spengler, Skriv. Naturch. Selsk. vol. v. part 2. p. 99.

Mactra carinata, Lamarck.

Hub. West Columbia; Cuming.

Well distinguished by the conspicuous curly foliaceous keel, that rises on the angle in each valve bordering the posterior area.

Species 30. (Mus. Cuming.)

MACTRA OVATA. Mact. testá ovatá, turgidá, hiante, subaquilaterali, rudè transversim striatá, squalidè fulvá, ochraceo tinctá, latere antico obluso, postico subattenualo; umbonibus tumidis, oppositis, confertis; lunulá areúque indistinctis, intus medio pallidè aurantiá.

The OVATE MACTRA. Shell ovate, swollen, gaping, nearly equilateral, rudely transversely striated, dirty-fulvous, ochre-stained, anterior side obtuse, posterior subattenuated; umboes swollen, opposite, close; lunule and area indistinct, interior pale orange in the middle. Spianla ovata, Gray, Fauna of New Zealand, p. 251. Hab. New Zealand

A dull swollen shell, irregularly rudely striated, tinged with orange in the interior.

Species 31. (Mus. Cuming.)

Mactra Eximia. Mact. testă ovato-transversă, æquilaterali, extremitatibus ambabus æqualiter obtusis, transversim minutissimè striată, purpurascente-cinercă, incarnato-radiată, epidermide fibrosă fulvă versus marginem indută; lunulă areăque amplis, subindistinctis, in medio elevatis, eleganter plicato-liratis; umbonibus tumidiusculis, approximatis; sinu pallii brevissimo, lato, regulariter arcuato.

The pretty Mactra. Shell ovately transverse, equilateral, both extremities equally obtuse, transversely very minutely striated, purple-ash, flesh-rayed, covered towards the margins with a fibrous fulvous epidermis; lunule and area large, rather indistinct, raised in the middle, elegantly plicately ridged; umboes rather swollen, approximated; sinus of the mantle very short, broad, regularly arched.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Moreton Bay, Australia; Strange.

A very characteristic species, minutely striated in the middle, whilst on the area and lunule it is strongly elegantly plicately ridged.

Species 32. (Mus. Cuming.)

MACTRA EDULIS. Mact. testá ovato-trigoná, crassá, solidá, æquilaterati, utrinque subangulatá, sordidè albá, ferrugineo-rufo interdum hic illic tinctá, plus minus erosá, epidermide olivaceá partim indutá; lunulá areáque indistinctis, medio subelevatis; umbonibus tumidiusculis, oppositis; sinu pallii trigono, obtuso, brevi, horizontali.

THE EATABLE MACTRA. Shell ovately triangular, thick, solid, equilateral, slightly angled on both sides, dirty-white, sometimes tinged here and there with rust-red, more or less eroded, partially covered with an olive epidermis; lunule and area indistinct, slightly raised in the middle; umboes rather swollen, opposite; sinus of the mantle triangular, obtuse, short, horizontal.

King, Zoological Journal, vol. v. p. 335.

Mulinia edulis, Gray.

Mulinia bicolor, Gray.

Mulinia typica, Gray.

Hab. Patagonia and Straits of Magellan.

A dingy subcroded solid shell, extremely variable in form according to its variety of growth.



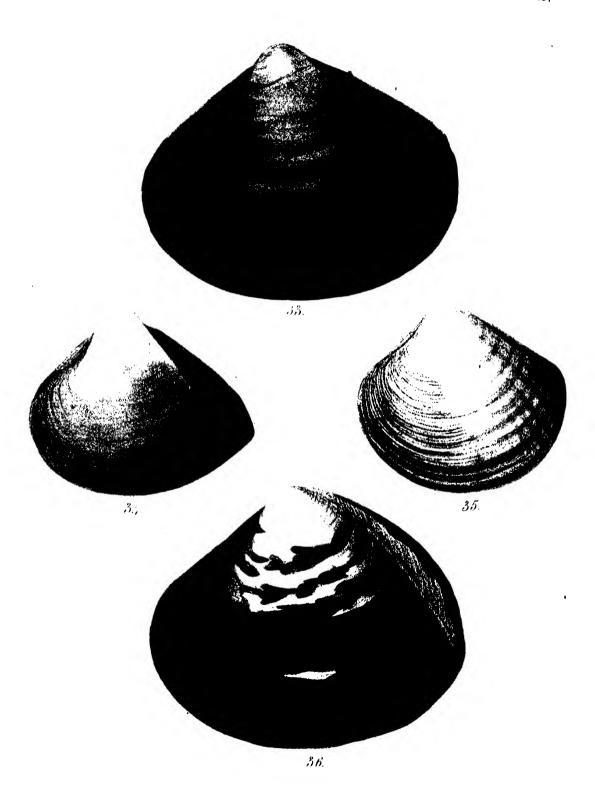


PLATE IX.

Species 33. (Mus. Cuming.)

MACTRA SAYI. Mact. testá transversim ovatá, latè subtrigoná, compressionculá, subæquilaterali, solidiusculá, utroque latere æqualiter declivi et obluso, infernè regulariter arcuato, sub epidermide flavescente cretaceoalbá, lævigatá, substriatá; umbonibus mínimis, aculis, subobliquis; areá lunuláque indistinctis.

SAY'S MACTRA. Shell transversely ovate, broadly subtriangular, rather compressed, nearly equilateral, rather solid, both sides equally slanting and obtuse, regularly arched at the lower part, chalk-white beneath a yellowish epidermis, smooth, finely substriated; umboes very small, acute, a little oblique; area and lunule indistinct.

Spisula Sayi, Gray, Ann. and Mag. Nat. Hist. 1837, p. 373.

Hab. Florida.

A stone-white compressed shell, covered with a strong vellowish-olive epidermis.

Species 34. (Mus. Cuming.)

Mactra angulata. Mact. testá transversim ovatá, turgidá, trigoná, acutè angulatá, inæquilaterali, tenuistriatá, calcarco-albá, nitente, epidermide tenui stramineá indutá, latere antica rotundato, postico angulato-rostrato; innulá indistinctá, areá peramplá, medio elecatá; umbonibus tumidis, acutè angulatis.

THE ANGLED MACTRA. Shell transversely ovate, turgid, triangular, sharply angled, inequilateral, finely striated, chalk-white, shining, covered with a thin straw-coloured epidermis, anterior side rounded, posterior angularly beaked; lunule indistinct, area very large, raised in the middle; umboes swollen, sharply angled.

GRAY, MS. in Brit. Mus. Ilab. Gulf of California.

Allied to M. Donaciformis, though uniformly of larger size. It is chiefly characterized by the large broad concavely angled growth of the posterior area.

Species 35. (Mus. Cuming.)

MACTRA OLORINA. Mact. testá transversim ovatá, trigoná, tumidiusculá, inæquilaterali, lævigatá, nitente, anticè densè transversim striatá, incarnato-albá, epidermide stramineá prope marginem indutá, latere antico rotunduto, postico rostrato; umbonibus subcompressis; lunulá oblongo-ovatá, striatá, arcá elongatá.

THE SWAN-LIKE MACTRA. Shell transversely ovate, triangular, rather swollen, inequilateral, smooth, shining, anteriorly closely transversely ridged, flesh-white, covered near the margin with a straw-coloured epidermis, anterior side rounded, posterior beaked; umboes subcompressed; lunule oblong-ovate, striated, area elongated.

Philippi, Abbild. und Besch. Conch. vol. ii. p. 72. pl. 2. f. 2.

Hab. Red Sea.

A delicate flesh-white polished shell, densely ridged on the anterior side only, and peculiarly beaked at the posterior extremity.

Species 36. (Mus. Cuming.)

MACTRA OVALIS. Mact. testá transversim oratá, compressiusculá, subæquitaterati, transversim rudè striatá, sordidè albá, epidermide futro-otivaceá crassiusculá indutá; umbonibus compressis, approximatis; tunutá areáque indistinctis; sinu pallii profundo.

THE OVAL MACTAA. Shell transversely ovate, rather compressed, nearly equilateral, transversely rudely striated, dirty-white, covered with a rather thick fulvous-olive epidermis; umboes compressed, approximated; lumde and area indistinct; sinus of the mantle deep.

SAY, Journ. Acad. Nat. Sci. Philadelphia, vol. ii. p. 309. Spisula similis, Gray.

Mactra ponderosa, Philippi.

Hab. Massachusetts, United States.

More truly ovate than M. Sayi, and of rougher growth, with the lunule and area much less distinct. It attains a much larger size than is represented in the accompanying Plate.

Mactra, Pt.X.

PLATE X.

Species 37. (Mus. Cuming.)

Mactra Cyprinus. Mact. testá ovato-transversá, æquilaterali, tenni, fragili, alhá, diaphaná, traversim striatá, ad umbones gibbá, anticè declivi et obtusá, posticè dilatatá, subtruncatá, valdè hiante, lincá prominente obliquè decurrente, latere antico plano, postico prominente, aperto.

THE CARP MACTRA. Shell ovately transverse, equilateral, thin, fragile, white, diaphanous, transversely striated, gibbous at the umboes, anteriorly slanting and obtuse, posteriorly dilated, subtruncated, very much gaping, with a prominent line running down obliquely, anterior side flat, posterior prominent and open.

GRAY, Wood, Index Test. pl. 1. f. 1.

Lutraria cyprina, Gray.

Cypricia cyprina, Gray.

Hab. ---- ?

An interesting semitransparent fragile species, having somewhat the aspect of *Anatina*.

Species 38. (Mus. Cuming.)

Mactra carinulata. Mact. testă trigono-transversă, tumidă, aquilaterali, utrinque acute angulată, tenuissime striată, albă, epidermide tenui fulvă indută; lunulă areăque indistinctis, grandibus, medio subelevatis; umbonibus angulatis; sinu pallii angusto, profundo, oblique ascendente.

The finely-keeled Mactra. Shell triangularly transverse, swollen, equilateral, sharply angled on both sides, very finely striated, white, covered with a thin fulvous epidermis; lunule and area indistinct, large, slightly raised in the middle; umboes angled; sinus of the mantle narrow, deep, obliquely ascending.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Gulf of California.

A shell of comparatively small size and of light growth, partaking of the typical characters of *M. Donaciformis*, and from the same locality.

Species 39. (Mus. Cuming.)

Mactra Polita. Mact. testá trigono-ovatá, suoæquuaterali, solidá, cinereo-fuscescente, incarnato tinctá, promiscue fasciată, dense striată, latere antico rotundato, postico subflexuoso-angulato; umbonibus minimis, violaceis; tunulă indistinctă, areă magnă, medio subelevată.

THE POLISHED MACTRA. Shell triangularly ovate, nearly equilateral, solid, light ash-brown, flesh-stained, promiscuously banded, densely striated, anterior side rounded, posterior slightly flexuously angled; umboes very small, violet; lunule indistinct, area large, slightly raised in the middle.

Chemnitz, Conch. Cab. vol. vi. p. 222. pl. 22. f. 216, 217.

Mactra glabrata, Schroeter.

Mactra australis, Lamarck.

Hab. Swan River.

Thick-set with shining strice, and of a light ash-colour, promiseuously banded, with the umboes violet-tipped.

Species 40. (Mus. Brit.)

Mactra Spengleri. Mact. testá triangulari, transcersá, aquilaterali, cuneiformi, transcersim obsoletè striatá, albo-lutescente, sub epidermide squalidè fusculá; umbonibus minimis, distantissimis, fossulá ligamenti triangulari, exterius apertá, separatis; lunulá magná, convexiusculá; latere postico plano, lato, angustá, acutá, circumscriptá; valvis solidiusculis, intus albis; dentibus lateralibus brevibus, cardine approximatis: sinu pallii profundo, obtuso, horizontali.

Spengler's Mactra. Shell triangular, transverse, equilateral, wedge-shaped, transversely obsoletely striated, whitish-yellow, beneath a dirty light brown epide mis; umboes very small, very distant, separated a ligamentary pit which is triangular, and outwardly open; lunule large, rather convex, posterior side flat, broad, narrow, sharp, circumscribed; valves rather solid, white within; lateral teeth short, approximating to the hinge; sinus of the mantle deep, obtuse, horizontal.

LINNÆUS, Syst. Nat. (12th edit.) p. 1125.

Schizodesma Spengleri, Gray.

Hab. Cape of Good Hope.

Remarkably distinguished from all other species by its sharp wedge-like form, and by its outwardly seen excavated crescent-like ligament pit.

Species 41. (Mus. Cuming.)

Mactra mitis. Mact. testá trigono-ovatá, tumidá, tenuiculá, subæquilaterali, densè tennistriatá, incarnato-spadiceá, lateribus rotundatis, postico supernè declivi; tunulá areáque subangustis, eleganter striatis; umbonibus parois, approximatis.

THE RIPE MACTRA. Shell triangularly ovate, swollen, rather thin, nearly equilateral, very closely finely striated, flesh-tinged, fawn-colour, sides rounded, posterior slanting at the upper part; lumule and area rather narrow, elegantly striated; umboes small, approximated.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Mouth of the Gambia, West Africa.

A very simple character, and of a light flesh-tinged fawn-colour.

Species 42. (Mus. Cuming.)

MACTRA TRUNCATA. Muct. testá trigoná, crassá, solidá, æquilaterali, sordidè albá, zonis transversis fulvis subdistantibus interdum notatá, latere antico rotundato, postico subangulato et truncato; umbonibus minimis, angulatis, approximatis; lunulá indistinctá, areá subamplá, ambabus medio subelevatis.

THE TRUNCATED MACTRA. Shell triangular, thick, solid, equilateral, dead-white, sometimes marked with transverse distant fulvous zones, anterior side rounded, posterior slightly angled and truncated; umboes very small, angled, approximated; lunule indistinct, area rather large, both slightly raised in the middle.

MONTAGU, Test. Brit. sup. p. 34.

Pectunculus crassiusculus, Lister.

Trigonella zonaria, Du Costa.
Venus rugosa, Gmelin.
Mactra subtruncata, Donovan.
Mactra crassatella, Lamarck.
Spisula truncata, Gray.
Hab. Britain.

A simple subtruncated triangularly ovate shell, of solid growth, of a dead white cast, more or less covered with a thin brownish epidermis.

Species 43. (Mus. Brit.)

MACTRA ELONGATA. Mact. lesta transversim elongala, trigona, crassa, solida, inæquilaterali, sordide alba, epidermide fusca induta, transversim rude striuta, striis ad extremitates plicato-rugosis, latere antico brevi, truncato, postico duplo longiore, attenuato; umbonilus compressis, confertis; lunula excavata, subiudistincta, area longa, angusta.

THE ELONGATED MACTRA. Shell transversely elongated, triangular, thick, solid, inequilateral, dead-white, for vered with a brown epidermis, transversely rudely striated, strise plicately rugose at the extredities, anterior side short and truncated, posterior twice as long, attenuated; umboes compressed, classes; lumule excavated, rather indistinct, area long and narrow.

QUOY and GAIMARD, Voy. de l'Astrolabe, pl. 111.4. 5-8. Spisnla elongala, Gray.

Hab. New Zealand.

A shell of solid growth, and of unusually oblong transverse form.



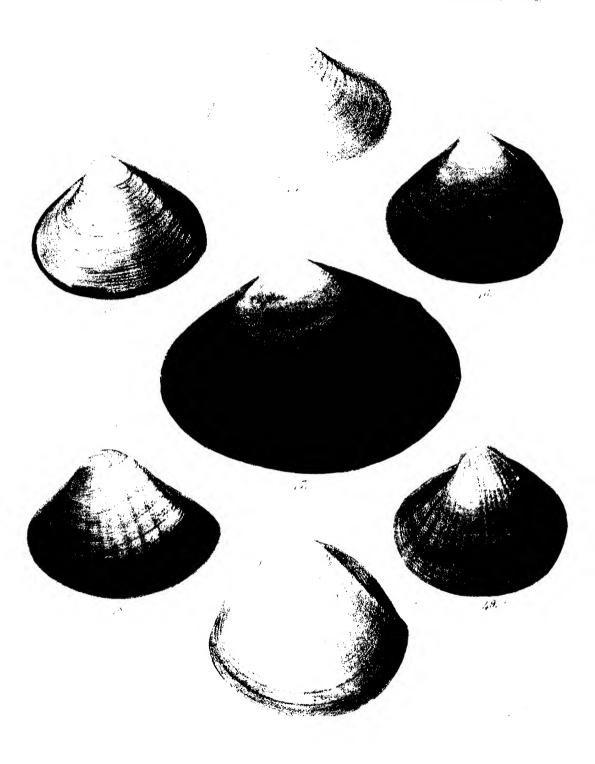


PLATE XI.

Species 44. (Mus. Cuming.)

Mactra Vitrea. Mact. lestá trigoná, turgidulá, tennissimá, vitreo-albá, inæquilaterali, utrinque hiante, latere antico brevi, subcompressá, lirá obsoletá descendrate, postico producto, rotundato, eleganter corrugatoplicato; umbonibus angulatis, nitidè plicato-striatis; lunulá vix nullá, medio elevatá, areá subamplá, cordiformi, plano-excavatá.

THE GLASSY MACTRA. Shell triangular, rather swollen, very thin, diaphanous, glassy-white, inequilateral, gaping at both ends, anterior side short, rather compressed, with an obsolete ridge descending, posterior produced, rounded, elegantly wrinkle-plaited; umboes angled, neatly plicately striated; lunule scarcely any, raised in the middle, area rather large, heart-shaped, flatly excavated.

Gray, Ann. and Mag. Nat. Hist. 1837, p. 372. Hab. Moluccas.

A delicate pellucid white shell, elegantly wrinkle-plaited down the posterior side.

Fig. 45. (Mus. Cuming.)

The shell here figured represents the *Mactra typicus*, Gray, which proves to be a variety of *M. edulis*.

Species 46. (Mus. Cuming.)

Mactra nitida. Mact. testá ovato-trigoná, æquilaterali, lurgidulá, anticè obtusá, posticè subangulatá, latere postico depresso, angulo acutiusculo circumscripto, candidissimá, nitente, sub epidermide flavicante, posticè squalidiore; umbonibus parois; lunulá magná, eleganter sulcatá, ovali, fossulá ligamenti exterius apertá; valvis intus albis; sinu pallii brevi, trigono.

THE SHINING MACTRA. Shell ovately triangular, equilateral, rather swollen, obtuse anteriorly, slightly angled posteriorly, posterior side depressed, circumscribed into a rather sharp angle, very white, shining, beneath a yellowish epidermis, duller on the posterior side; umboes small; lunule large, elegantly grooved, oval, ligamentary pit outwardly open; valves white within; sinus of the mantle short, triangular.

Mactra nitida, Schrocter, Einl. Conch. vol. iii. pl. 8. f. 2.

Mactra straminea, Lamarck. Schizodesma nitida, Gray.

Hab. Senegal.

Of a shining white substance, covered with a thin shining horny epidermis, and peculiarly sharply angled down the posterior side.

Species 47. (Mus. Cuming.)

Mactra fragilis. Mact. testá ovato-oblongá, subæquilaterali, compressá, transversim tennè et irregulariter striatá, albá, sub epidermide fibrosá griseo-flavescente, in latere postico nigricante, latere antico obtuso, paululum attenuato, postico subtruncuto, hiante, bilirato, liris subdistantibus; umbonibus compressis, approximatis; tunulá areáque elongatis, angustis.

THE FRAGILE MACTRA. Shell ovately oblong, nearly equilateral, compressed, transversely finely and irregularly striated, white, beneath a greyish-yellow fibrous epidermis, blackish on the posterior side, anterior side obtuse, a little attenuated, posterior subtruncated, gaping, two-ridged, ridges rather distant; umboes compressed, approximated; lunule and area elougated, narrow.

CHEMNITZ, Conch. Cab. vol. vi. p. 236. pl. 24. f. 235.

Mactra Brasiliana, Lamarck.

Mactra oblonga, Say.

Spisula fragilis, Gray.

Hab. Honduras; Dyson.

Of rather slight form, characterized by a space down the posterior side between two ridges, in which the epidermis is darker than on the rest of the shell.

Species 48. (Mus. Cuming.)

MACTRA SEMISULCATA. Mact. testâ transversim ovată, tumidă, solidiusculă, inæquilaterali, albidă, nitente, epidermide tenui stramineă partim indută, latere antico rotundato, transversim sulcato, sulcis medium versus evanidis, postico conspicue rostrato; lunulă areăque latiusculis, plicato-striatis; umbonibus tumidis, politis, approximatis.

THE HALF-GROOVED MACTRA. Shell transversely ovate, swollen, rather solid, inequilateral, whitish, shining, partially covered with a thin straw-coloured epider-

mis, anterior side rounded, transversely grooved, grooves fading in the middle, posterior conspicuously beaked; lunule and area rather broad, plicately striated; umboes swollen, polished, close.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Australia.

An interesting half-grooved anteriorly beaked shell, having very much the form of Crassatella.

Species 49. (Mus. Cuming.)

Mactra Adansoni. Mact. testá ovato-oblongá, transversá, turgidulá, subæquilaterali, albo-flavicante, nitente, pallidè violucco angustè multiradiatá, latere antico regulariter striato, medio et latere postico lævigatis; tunulá areáque ovatis, parriusculis, eleganter striatis; umbonibus subangutatis, violuceis.

Adamson's Mactra. Shell ovately oblong, transverse, rather swollen, nearly equilateral, whitish-yellow, shining, narrowly many-rayed with pale violet, anterior side regularly striated, middle and posterior side smooth; lundle and area ovate, rather small, elegantly striated; umboes rather angular, violettipped.

Philippi, Zeitschrift für Malac. 1848, p. 152.

Le Lisor, Adanson.

Mactra lilacea? Lamarck.

IIab. Senegal.

Approximating in some measure to M. stultorum, but more transverse, and more regularly violet-rayed.

Species 50. (Mus. Cuming.)

MACTRA CORALIANA. Mact. testá trigono-suborbiculari, subæquilaterali, tenui, tumidiusculá, eburneá, zonulis nonnullis transversalibus luteis aut rufescentibus notatá, latere antico leviter concavo-compresso; lundá indistinctá, postico declivi, obtuse angulato; areá peramplá convexá; umbonibus angulatis, confertis.

THE CORAL MACTRA. Shell triangularly suborbicular, nearly equilateral, thin, rather swollen, ivory-white, marked with a few yellowish transverse bands, auterior side slightly concavely compressed, with the lumule indistinct, posterior side slanting, obtusely angled; area very large, convex; umboes angular, close.

LINNÆUS, Syst. Nat. (12th edit.) p. 1125.

Mactra lactea, Chemnitz.

Hab. Venice, Sicily.

A triangularly rounded shining white species, concavely compressed on one side and convexly angled on the other.

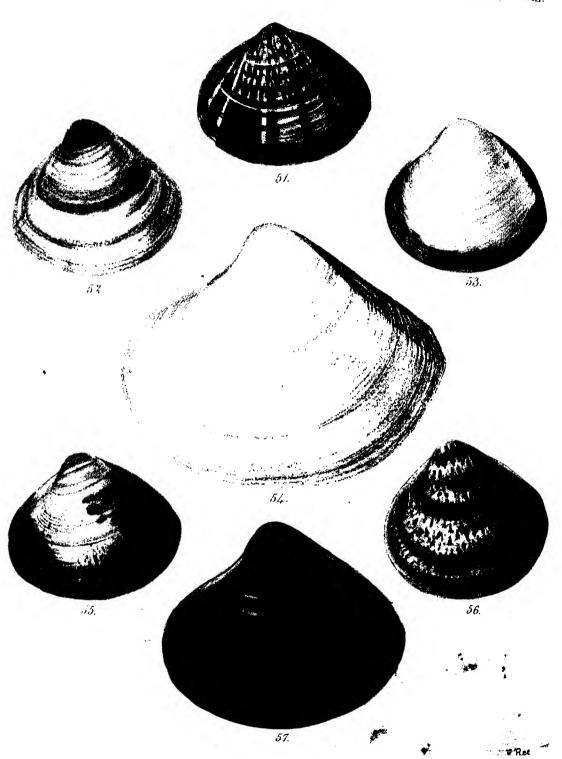


PLATE XII.

Species 51. (Mus. Cuming.)

Mactra achatina. Mact. testá ovato-oblongá, ellipticá, compressá, subæquilaterali, pallidd violaceá, ad umbones purpurascentibus, maculis radiisque interruptis lucteis pictá; areá lunuláque indistinctis.

THE AGATE MAGTRA. Shell ovately oblong, elliptical, compressed, nearly equilateral, pale violet, purple at the umboes, painted with milk-white spots and interrupted rays; area and lunule indistinct.

CHEMNITZ, Conch. Cab. vol. ii. p. 218. f. 1957.

Mactra maculosa, Lamarck.

Mactra adspersa, Dunker.

Mactra maculata, Hanley.

Hab. Philippine Islands.

One of the most richly-coloured species of the genus, being profusely mottled and rayed throughout with violet and flesh-rose.

Species 52. (Mus. Cuming.)

Mactra fasciata. Mact. testá ocato-trigoná, inæquilateruli, tumidá, lævigalá, opaco-alliá, zonis violuceis distantibus notutá; nunbonibus rufescente-violaceis; latere untico obtuso, leviter concavo-impresso, postico obtusè angulato; lunulá indistinctá, areá subamplá.

The banded Mactra. Shell ovately triangular, inequilateral, swollen, smooth, opake-white, marked with distant violet zones; umboes reddish-violet; anterior side obtuse, slightly concavely impressed, posterior obtusely angled; lunule indistinct, area rather large.

Lamarck, Anim. sans vert. (Deshayes' edit.) vol. vi. p. 101.

Hab. ——?

A species of very simple aspect, but well distinguished by the characters above noted.

Species 5. (Mus. Cuming.)

MACTRA PURA. Muct. testá ovato-trigoná, depressiusculá, crassá, solidá, æquilaterali, medio hibgibbá, transversim inæqualiter obsoletè striată, candidissimá, sub epidermide tenui flavescente, latere antico obtuso, postico subangulato; renbonibus breviota, jepessia; subindistincia, plicato-striată, ir conventi

THE PURE MACTRA. Shell ovately triangular rather depressed, thick, solid, equilateral, rather gibbons in the middle, transversely unequally obsoletely striated, very white, beneath a thin yellowish epidermis, anterior side obtuse, posterior slightly angulated; umboes short, depressed; lunule rather indistinct, plicately striated, area convex.

DESHAYES, Pro. Zool. Soc. 1854. Hab. Australia.

A solid ivory-white shell, partially covered with a straw-coloured fibrous epidermis.

Species 54. (Mus. Cuming.)

MACTRA COMPLANATA. Mact. testá transversim trigoná, depressá, æguilateruli, securiformi, lævigatá, ulhi, utroque latere æqualiter obtusá, margine inferiore acuto, regulariter arcuato; lunulá magná, elongatolanceolatá, sulco impresso circumdatá, in medio prominente, areá elongatá, ovato-lanceolatá, impressá, planá, angulo duplici circumscriptá; umbonihus purvis, recurvis, uncinutis; valvis tenuibus, intus candidissimis; laminá cardinali latá, tenui; dentibus lateralibus brevibus, lamellosis, triangularibus, abrupté truncalis; sinu pallii brevi, semiclipticá, descendente.

THE SMOOTH MACTRA. Shell transversely triangular, depressed, equilateral, hatchet-shaped, smooth, white, equally obtuse on each side, lower margin sharp, regularly arched; lunule large, clongately lanceolate, surrounded with an impressed groove, prominent in middle, area elongated, ovately lanceolate, impressed, flat, circumscribed by a double angle; umboes small, recurved, hooked; valves thin, very white within; hinge lamina broad, thin; lateral teeth short, lamellous, triangular, abruptly truncated; sinus of the mantle short, semielliptic, descending.

DESHAYES, Pro. Zool. Soc. 1854. Hab. Indian Ocean.

A singularly broad depressed species, with somewhat of a Lucina aspect.

Species 55. (Mus#Cuming.)

MACTRA SEMISTRIATA. Mact. testă transversim ovată, tumidă, gibbosă, subæquilaterali, lateribus rotundatis, jostico paulo longiore, livido-albā, nitente, ad umbones prpurascente, epidermine tenui partim indută, anticè sulcată, postice lavigată; lunulă areaque latiusculis, plicalo-strialis.

THE HALF-STRIATED MACTRA. Shell transversely ovate, swollen, gibbous, nearly equilateral, sides rounded, the posterior rather the longer, livid white, shining, purplish at the umboes, partially covered with a thin straw-coloured epidermis, anteriorly grooved, striated, posteriorly smooth; lunule and area rather broad, plicately striated.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. ---- ?

Of rather subglobose form, groove-striated over the anterior half of the shell.

Species 56. (Mus. Cuming.)

Mactra Maculata. Mact. testă trigono-ovată, tenniculă, compressă, inæquilaterali, transversim irregulariler tennistriută, albilă, ferrugineo-fuscescente marmorată, postice castapeo-tinctă, latere antico brevi, rotundato, postico declici, altenuato-angulato; lunulă subindistinctă, areă oblongă, punctulată; umbonibus parvis, approximatis.

THE SPOTTED MACTRA. Shell triangularly ovate, rather thin, compressed, inequilateral, transversely finely irregularly striated, whitish, mottled with light rust-brown, posteriorly chestnut-tinged; anterior side

short, rounded, posterior slanting, attenuately angled; lunule rather indistinct, area oblong, dotted; umboes small, close.

CHEMNITZ, Conch. vol. vi. pl. 41. f. 208, 209.

Mactra squalida, Lamarck.

Mactra setosa, Quoy.

Hab. Philippine Islands; Cuming.

Of rather compressed form, produced on the posterior side into a subattenuated angle.

Species 57. (Mus. Cuming.)

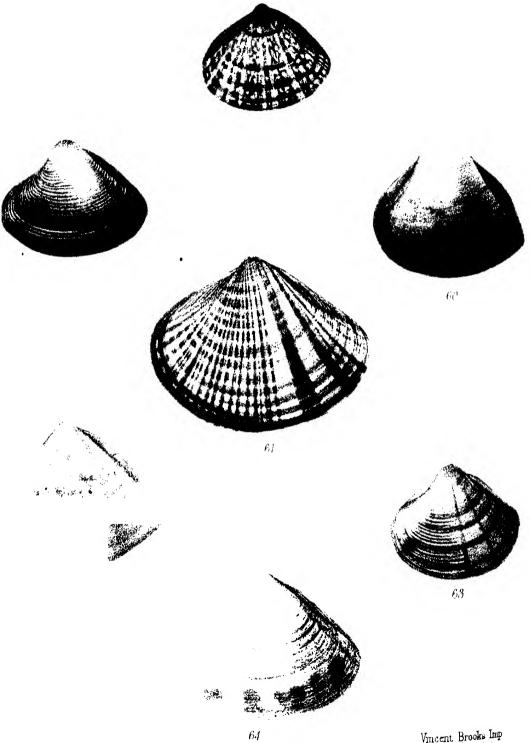
Mactra violacea. Mact lest dovato-trigon dequilaterali, tenui, fragili, postice paululum hiante, undique intense violacea, transversim dense tenuissime striata, epidermide tenui versus marginem; lunula arcaque lanceoluto-ovatis; umbonibus approximatis.

THE VIOLET MACTRA. Shell ovately triangular, equilateral, thin, fragile, a little gaping at the posterior end, everywhere deep violet, transversely densely very finely striated, with a slight epidermis towards the margin; lunule and area lanceolately ovate; umboes close.

CHEMNITZ, Conch. vol. vi. p. 220. pl. 22. f. 213, 214. Hab. Malacca.

A shell of light structure, always distinguished by its uniform deep violet colouring within and without.





Vincent Brooks Imp

MACTRA:

PLATE XIII.

Species 58. (Mus. Cuming.)

Mactha ornata. Mact. testă ovato-transversă, compressiusculă, tenniculă, æquitaterali, lævigată, substriată, antice obtusă, postice declivi et obtique truncată, ad umbones purpurascente-roseă, in medio roseo obscure radiulă, maculis albis marmorată; umbonibus parvis, lævigatis; tunulă ovată, albescente, striată; valvis intus purpurascente-roseo tinclis; sinu pallii lato, semi-

The ornate Mactra. Shell ovately transverse, rather compressed, rather thin, equilateral, smooth, finely striated, anteriorly obtuse, posteriorly slanting and obliquely truncated, purple-rose at the umboes, obscurely rayed with rose in the middle, and mottled with white spots; umboes small, smooth; lumule ovate, whitish, striated; valves stained within with purple-rose; sinus of the mantle broad, semicircular.

Gray, Ann. and Mag. Nat. Hist. 1837, p. 371. Hab. China Seas.

Richly stained and rayed with clear purple-rose, promisenously mottled with white.

Species 59. (Mus. Cuming.)

Macta dissimilis. Mact. testá transversá, ovato-trigoná, inaquilaterali, turgidulá, nitidá, albo-griseá,
transversim cinereo-zoñatá, intus purpureo-violaceá,
lutere antico paulo breviore, obtuso, supernè recto, declivi, latere postico supernè convexiusculo, extremitate
obtuso; umbonibus brevibus, acutis, posticè obtusè angulatis; lunulá areáque distinctis, eleganter sulcatis;
valcis regulariter transversim tenuè sulcatis, sulcis versus umbones enangeontibus

THE DISSIMILAR MACTRA. Shell transverse, ovately triangular, inequilateral, rather swollen, shining, whitishgrey, transversely ash-zoned, interior purple-violet; anterior side rather the shorter, obtuse, straight and slanting at the upper part, posterior side rather convex at the upper part, obtuse at the extremity; umboes short, sharp, posteriorly obtusely angled; lunule and area distinct, elegantly grooved; valves regularly transversely finely grooved, grooves fading away towards the umboes.

Deshayes, Pro. Zool. Soc. 1854. Hab. Australia: Jukes.

A rather solid transversely grooved shell, of a violetash hue, presenting somewhat of a *Donas*-like aspect.

Species 60. (Mus. Cuming.)

MACTRA PULCHRA. Mact. testá ovato-trigoná, inæquitaterali, tumidiusculá, solidá, anticè breviore, rotundatá,
postice attenualá, flavescente-cinereá, obscurè fuscaradiulá, anticè transversin regulariter sulcatá; umbonibus tumidis, obliquis, lævigatis, violaceo-tinctis,
areá lunuláque ovalis, fusco-violascentibus, eleganter
sulcatis, supernè albis; sinu pallii angusto, oblusa,
profundo; valvis intus rufo-violaceis.

THE BEAUTIFUL MACTRA. Shell ovately triangular, inequilateral, rather swollen, solid, anteriorly shorter, rounded, posteriorly attenuated, yellowish-ash, obscurely brown-rayed, transversely regularly grooved on the anterior side; umboes swollen, oblique, smooth, violet-tinged; area and lunule ovate, brown-violet, elegantly grooved, whitish at the upper part: sinus of the mantle narrow, obtuse, deep; valves red-dish-violet within.

GRAY, Ann. and Mag. Nat. Hist. 1837, p. 372. Hab. Red Sea.

A shining reddish-ash species, grooved on the anterior side only, not distinguished by any particular beauty.

Species 61. (Mus. Cuming.)

MACTBA INCARNATA. Mact. testå ovato-transverså, subtrigonå, tumidiusculå, inæquilaterali, postice pæululum rostratå, tenuistriatå, nitidå, albidå, incarnato-roseo eleganter radiatå; umbonibus parvis, approximatis; lunulå areåque sublanceolatis, prominentè sulcatis.

THE FLESH-TINTED MACTRA. Shell ovately transverse, subtriangular, rather swollen, inequilateral, posteriorly a little beaked, finely striated, shining, whitish, clegantly rayed with flesh-rose; umboes small, approximated; lunule and area sublanceolate, prominently grooved.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Swan River; Bacon.

A characteristic subrostrate transversely ovate shell, prettily rayed throughout with flesh-rose.

Species 62. (Mus. Cuming.)

MACTRA DONACIFORMIS. Mact. testá ovato-triyoná, inæqualiterali, turgidá, semicordalá; umbonibus acutis,
oppositis, distantibus, transversim tenuissimè striatá, sub
epidermide fulvá albá, anticè obtusá, posticè latè planá
et angulatá, extremitate acuminatá.

THE DONAX-SHAPED MACTRA. Shell ovately triangular, inequilateral, swollen, semicordate; umboes sharp, opposite, distant, transversely very finely striated, white, beneath a fulvous epidermis, anteriorly obtuse, posteriorly broadly flat and angled, acuminated at the extremity.

Mulinia Donaciformis, Gray, Ann. and Mag. Nat. Hist. 1837, p. 376. Beechey's Voyage, Moll. p. 154. pl. 44. f. 13.

Hab. New Zealand.

A very characteristic species, resembling particularly the form of the *Donax*-shaped species of *Arca*.

Species 63. (Mus. Cuming.)

MACTRA VIRGO. Mact. testá ovato-trigoná, subæguitaterali, crassá, solidá, depressiusculá, irregulariter transversim crebristriatá, intus extusque candidissimá, nitente, utroque latere aqualiter declivi, anticè obtusá, posticè acuminatá, subflexuosá; umbonibus minimis, acutis, approximatis; lunulá areáque lævigatis; sinu pallii brevi, lato, obtuso, obliquo.

THE VIRGIN MACTRA. Shell ovately triangular, nearly equilateral, thick, solid, rather depressed, irregularly

transversely closely striated, very white within and without, shining, both sides equally slanting, anteriorly obtuse, posteriorly acuminated, subflexuous; umboes very small, sharp, approximated; lunule and area smooth; sinus of the mantle short, broad, obtuse, oblique.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Swan River.

An ivory-white solid shell, of a depressly triangular form, rather flexuously acuminated on the posterior side.

Species 64. (Mus. Cuming.)

MACTRA DYSONI. Mact. testă transversim oblongă, subtrigonă, compressă, subæquilaterali, postice leriter unminată, sub epidermide flavescente tenui calcareo-albă, irregulariter transversim striată; umbonibus subacute angulatis; lunulă areăque subangulatis.

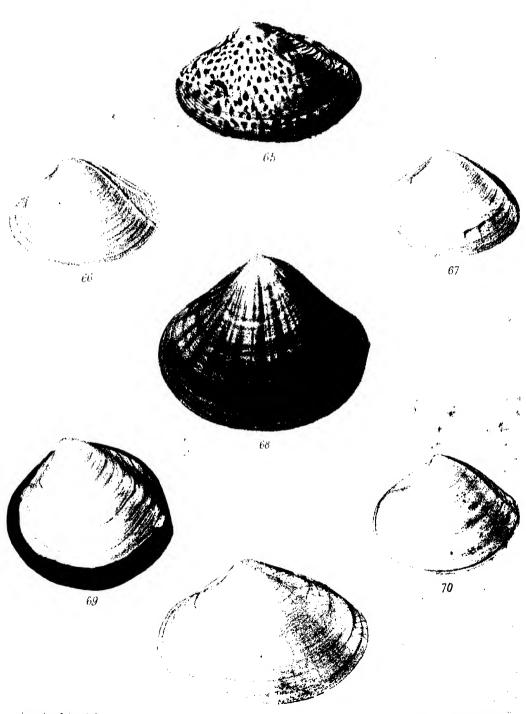
Dyson's Mactra. Shell transversely oblong, subtriangular, compressed, nearly equilateral, posteriorly slightly acuminated, chalk-white, beneath a thin yellowish epidermis, irregularly transversely striated; umboes rather sharply angled; lunule and slightly angled.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. China.

Of a peculiarly delicate opake chalk-white, beneath a very slight yellowish epidermis, compressed and angled towards the umboes.





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Vincent Brooks Imp.

PLATE XIV.

Species 65. (Mus. Cuming.)

Mactra Aspersa. Mact. testá elongato-transversá, ellipficá, compressá, inæquilaterali, latere postico antico duplo longiore, transversim irregulariter tennisulcatá et striatá, albá, maculis epidermidis nigro-fuscæ peculiariter notatá; umhonibus parvis, approximatis.

THE SPRINKLED MACTRA. Shell elongately transverse, elliptic, compressed, inequilateral, posterior side twice as long as the anterior, transversely irregularly finely grooved and striated, white, peculiarly marked with spots of black-brown epidermis; umboes small, approximated.

Sowerby, Tankerville Catalogue, Appendix, p. 2. Spisula tenera, Gray.

Hab. Philippine Islands; Cuming.

The characteristic dark spots of this species reside only in the epidermis.

Species 66. (Mus. Cuming.)

Mactra ovalina. Mact. testå ovato-transverså, subæquiluterali, compresså, albå, hyalinå, tenuissimè transversim striutå, utrinque obtuså; umbonibus pervis, lævtgatis, approximatis; areå lanceolatå, depressione trinatå subflexuoså utrinque notatå, lunulå angustå, depressinsculå; sinu pallii subelliptico, in medio latiore.

The ovalina Mactra. Shell ovately transverse, nearly
equilateral, compressed, white, hyaline, very finely
transversely striated, obtuse at both ends; umboes
small, smooth, approximated; area lanceolate, with

subclliptic, broader in the middle. LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vi. p. 104. Hab. West Columbia; Cuming.

a bicarinate subflexuous depression on each side, lunule narrow, rather depressed; sinus of the mantle

A compressed subtransparent white shell, with a characteristic two-keeled flexuous depression down each side of the area.

Species 67. (Mus. Cuming.)

MACTRA DEPRESSA. Mact. testá ovato-transversá, subtrigoná, inæquilaterali, depressá, transversim irregulariter tenuistriatá, albá, sub epidermide tenui stramineá, latere antico superne concaviusculo, postico convexiusculo; lunulă areăque sublanceolatis; cardine lato, solidinsculo, dentibus lateralibus brevibus; sinu pallii lato, oblique arcuato.

The depressed Mactra. Shell ovately transverse, subtriangular, inequilateral, depressed, transversely irregularly finely striated, white, beneath a light straw-coloured epidermis, anterior side rather concave at the upper part, posterior rather convex; lunule and area sublanceolate; hinge broad, rather solid; lateral teeth short; sinus of the mantle broad and obliquely arched.

Spengler, Skriv. Naturch. Selsk. vol. v. p. 118. Hab. Australia.

Of very simple oval form, obtusely rounded at each end.

Species 68. (Mus. Cuming.)

MACTRA SAULIÆ. Mact. testá ovatá, subtrigoná, æquilaterali, depressá, planá, extremitatibus rotundatá et hiante, sub epidermide sericeá albá fusco-violaceo-rudiatá; tunulá areáque angustis, maculá fusco-violaceá notatis; valvis tenuibus, fragilibus, transversim tenuistriatis; sinu pallii lato.

Saul's Mactra. Shell ovate, subtriangular, equilateral, depressed, flat, rounded and gaping at the extremities, white, rayed with brown-violet, beneath a silky epidermis; lunule and area narrow, marked with fuscous-violet; valves thin and fragile, transversely finely striated; sinus of the mantle broad.

Gray, Ann. and Mag. Nat. Hist. 1837. Hab. Senegal.

A very distinct and well-marked species, remarkable for its fine transversely fibrous silky epidermis.

Species 69. (Mus. Cuming.)

MACTRA TRISTIS. Macl. testá suborbiculari, valdè compressá, inæquilaterali, utrinque hiante, squalidè albá,
suberosá, versus marginem epidermide fusco indutá,
transversim irregulariter densè striatá, latere antico
brevi, rotundato, postico duplo longiore, leviter flexuosoangulato; umbonibus minimis, approximatis; lunulá
areaque indistinctis; sinu pallii magno, obtuso, basi
dilatato.

THE SAD MACTRA. Shell suborbicular, very compressed,

inequilateral, gaping at each end, dirty-white, suberoded, covered towards the margin with a brown epidermis, transversely irregularly closely striated, anterior side short and rounded, posterior twice as long, slightly flexuously angled; unboes very small, approximated; lunule and area indistinct; sinus of the mantle large, obtuse, dilated at the base.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Moreton Bay, Australia.

A very compressed suborbicular shell, rough and croded, except where covered with a dark olive-brown fibrous epidermis.

Species 70. (Mus. Cuming.)

Mactra explanata. Mact. testá ovato-subtrigoná, compressá, eburneá, lævigatá, nitente, latere antico lato, obtuso, paulo breviore, postico declivi, attenuato, hiante; umbonibus parvis, approximatis; lunulá lanceolatá, medio elevatá, areá angustá, concavá, angulá bicarinatá utrinque notatá; curdine peculiariter lato et excavato; sinu pallii lato, profundiusculo, obtusissimo.

The smooth Mactra. Shell ovately subtriangular, compressed, ivory-white, smooth, shining, anterior side broad, obtuse, rather the shorter, posterior slanting and attenuated, gaping; umboes small, approximated; lunule lanceolate, raised in the middle, area narrow, concave, with a two-keeled angle on each side; hinge peculiarly broad and excavated;

sinus of the mantle broad, rather deep, very obtuse.

DESHAYES, Pro. Zool. Soc. 1854. Hab. Swan River, Australia.

A subpellucid shining ivory-white compressed shell, with a very peculiar hinge, the lateral teeth in each valve forming an unusually broad lamellar trench.

Species 71. (Mus. Cuming.)

Mactra egena. Mact. testá ovato-transversá, compressá, inæquilaterali, candidissimá, transversim irregulariter striatá, latere antico brevi, angustato, supernè declivi, latere postico lutiore; areá angustissimá, profundá, utrinque angulum irregulariter plicato-notati, lunulá lanceolatá; umbonibus parvis, approximatis; sinu pallii profundo, lato, digiliformi, dimidiam partem valvarum attingente.

THE DISTRESSED MACTRA. Shell ovately transverse, compressed, inequilateral, very white, transversely irregularly striated, anterior side short, narrowed, slanting at the upper part, posterior side broader; area very narrow, deep, with an irregularly plaited obtuse angle on each side, lunule lanceolate; umboes small, approximated; sinus of the mantle deep, broad, finger-shaped, reaching to the half of the valve.

DESHAYES, Pro. Zool. Soc. 1854.

IIab. ----?

Somewhat resembling M. Dysoni, but more inequilateral, and roughly plicated on each side the cardinal area, which is pressed inwards.



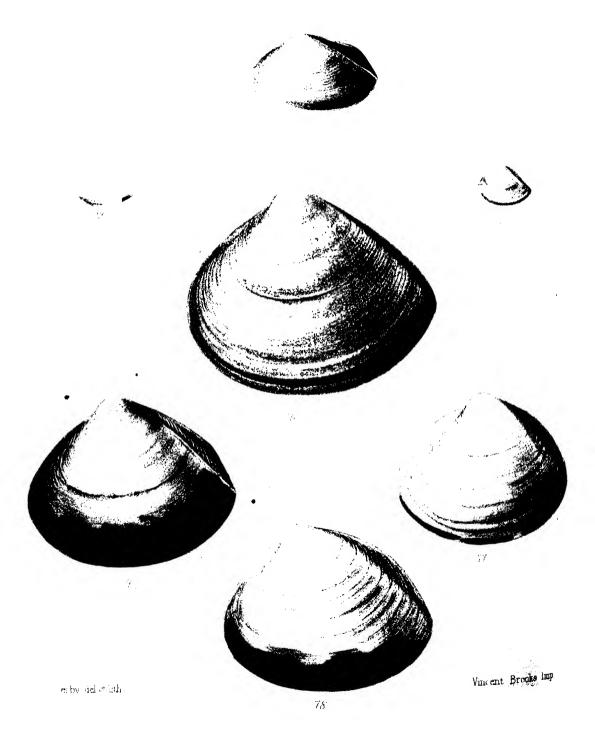


PLATE XV.

Species 72. (Mus. Brit.)

Mactra Bilineata. Mact. testá oblongo-ovatá, subcompressá, pellucido-albá, epidermide sericeá sparsim indutá, imeguilaterali, latere antico rolundato, postico longiore, subobsoletò concavo-angulato, angulo utrinque lineari-carinato; lunulá vix nullá.

FILE BILINEATED MACTRA. Shell oblong-ovate, rather compressed, transparent white, covered here and there with a silky epidermis, inequilateral, anterior side rounded, posterior longer, somewhat obsoletely concavely angled, angle linearly keeled down each side; searcely any lumule.

C. B. Adams (Mus. Cuming).

Hab. Jamaica.

A clear subtransparent shell, partially covered with a slight silky epidermis, characterized on the posterior side by a bi-linearly keeled angle.

Species 73. (Mus. Brit.)

Mactra Tellinoides. Mact. testă subtrigono-ovată, opaco-albă, lavigată, epidermide fuscescente sparsim indută, inequilaterati, latere antico breci, rotundato, postico late angulato et producto; umbonibus acutis; lumbid vix nultă.

THE TELLEN-LIKE MACTEA. Shell somewhat triangularly ovate, opake-white, smooth, sparingly covered with a light brown epidermis, inequilateral, anterior side short, rounded, posterior broadly angled and produced; umboes sharp, searcely any lunule.

CONRAD, Journ. Acad. Nat. Sci. Philadelphia.

Hab. ---?

This species differs from the following in being of an opake chalk-white and smooth, whilst that is shining white and strongly striated.

Species 74. (Mus. Brit.)

Mactra sublanceolata. Mact. testá subtrigono-ovatá, albá, inaquilaterali, lateribus ambobus subangulatis, latere antico transversim striato, postico longiore, sublanceolato, minus striato; lunulá indistinctá, areá posticali lutá, subconcava.

THE SURLANCEOLATE MACTRA. Shell somewhat trian-

gularly ovate, white, inequilateral, both sides rather angular, anterior side transversely striated, posterior longer, sublanceolate, less striated; lunule indistinct, posterior area broad, rather concave.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. ----?

A shining white species, sharply transversely strinted, chiefly on the posterior side, with a rather broad wedgelike area on the posterior side.

Species 75. (Mus. Cuming.)

Macta connea. Mact. testá subtrigoná, tenui, ventricosá, transversim tenuistriatá, striis irregularibus, ad latera rugosis; incarnato-albá, obscuré concentricé fasciatá; subæquilaterati, tatere antico rotundato, postico longiore, subproducto; lunulá amplá, subindistinctá: umbonibus conspicuis, confertis.

The horny Mactra. Shell somewhat triangular, ventricose, transversely finely striated, strire irregular, rugose at the sides; flesh-white, obscurely concentrically banded; nearly equilateral, anterior side rounded, posterior longer, somewhat produced; lunule large, rather indistinct; umboes conspicuous, close-set.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. ---?

A light flesh-tinged shell, quite distinct in its characters from any other species.

Species 76. (Mus. Brit.)

MACTRA MURCHISONI. Mact. testá oratá, subventricosá, solidiusculá, albá, lævigatá, epidermide strumineá versus marginem indutá, subæquilaterali, latere antico rotundato, postico sublongiore, leviter angulato-producto, angulo lineari-carinato; lunulá peramplá, corrugato-liratá; umbonibus confertis.

MURCHISON'S MACTRA. Shell ovate, subventricose, rather solid, white, smooth, covered towards the margin with a straw-coloured epidermis, nearly equilateral, anterior side rounded, posterior rather the longer, slightly angularly produced, angle linearly keeled; lunule very large, wrinkle-ridged; umboes close-set.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. New Zealand; Major Greenwood.

A solid opake-white shell, covered towards the margin with a clear thin straw-coloured epidermis, having the auterior lunule very large and peculiarly wrinkle-edged.

Species 77. (Mus. Brit.)

Mactra Byronensis. Mact. testá oratá, solidiusculá, gibbosá, opaco-albá, æquilaterati, anticè rotundatá, posticè oblusè subangulatá; lunulá indistinctá; nubonibus parcis, subremotis.

THE BYRON MACTRA. Shell ovate, rather solid, gibbous, opake-white, equilateral, anteriorly rounded, posteriorly obtusely slightly angled; lunule indistinct; umboes small, rather distant.

Mulinia Byronensis, Gray in Brit. Mus. Hab. South America; Capt. Lord Byron.

An opake-white solid shell, of somewhat gibbous oval form, with little or no sculpture or inequality of growth.

Species 78. (Mus. Brit.)

MACTRA EXALBIDA. Mact. testá subquadrato-ovatá, versus marginem compressá, calcareo-albá, irregulariter rnyoso-striatá, epidermide tenui stramineá sparsim indutá, inæquilaterali, latere antico brevi, rotundato, postico obliquè rotundato, multo longiore; lunulá cia nultá; umbonibus subremotis.

THE VERY WHITE MACTRA. Shell somewhat squarely ovate, compressed towards the margin, chalk-white, irregularly roughly striated, sparingly covered with a thin straw-coloured epidermis, inequilateral, anterior side short, rounded, posterior obliquely rounded, much longer; scarcely any lunule; umboes rather distinct.

Mulinia exalbida, Gray in Brit. Mus.

Hab. South America; Capt. P. P. King.

Of an croded chalk-white character, roundly oblongproduced on the posterior side.

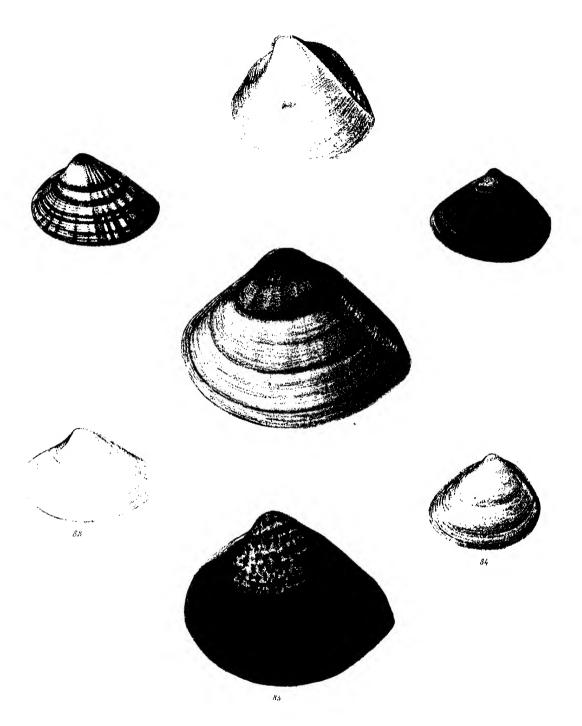


PLATE XVI.

Species 79. (Mus. Cuming.)

MACTEA GIBBOSULA. Mact. testá subtrigono-cordatá, tenuiculá, gibbosá, inaquilaterali, transversim filiformistriatá, versus umbones lævigatá, albá, ferrugineo-fascescente pallidissimè tinctá, latere antico brevi, postico declivi, obtusè angulatá; umbonibus tumidis, utrinque angulatis, approximatis; tunutá areáque latiusculis, eleganter plicatis, medio elevatis.

THE GEBOUS MACTRA. Shell somewhat triangularly cordate, rather thin, gibbous, inequilateral, transversely thread-like striated, smooth towards the umboes, white, faintly tinged with rust-brown, anterior side short, posterior slanting, obtusely angled; umboes swollen, angled on each side, close; lunule and area rather broad, elegantly plicated, raised in the middle.

Deshayes, Pro. Zool. Soc. 1854. Hob. Indian Seas.

A thin swollen species, having somewhat the general aspect of a Cardium.

Species 80. (Mus. Cuming.)

Mactra decora. Mact. testá ovato-transversá, turgidá, imaquitateruli, nitidá, albo et violaceo eleganter radiatá et transversim zonatá, latere antico breviore, obtuso, transversim tenuè regulariter sulcato, sulcis in medio evanescentibus; umbonibus tumidiusculis, atro-violaceis, parum distantibus; tunulá albo et violaceo bicoloratá, regulariter plicatá, areá concaviusculá, tenuipticatá.

THE HANDSOME MACTRA. Shell ovately transverse, swollen, inequilateral, shining, elegantly rayed and transversely zoned with white and violet, anterior side the shorter, obtuse, transversely finely irregularly grooved, grooves disappearing towards the middle; unaboes rather swollen, dark violet, but little distant; lumbe two-coloured with white and violet, regularly plicated, area rather concave, thinly plicated.

Deshayes, Pro. Zool. Soc. 1854. Hab.

Of a Cytherea aspect, grooved on the anterior half, elegantly banded and faintly rayed with cinereous violet.

Species 81. (Mus. Cuming.)

MACTIA LUZONICA. Mact. testa transcersim trigona, aquiliterali, subsymmetricè turgidula, aqualiter utroque latere declici, lutere antico subobsolelè sulcato, sulcis in medio plus minus evanescentibus, nitida, pallidè fusca vel albo-rufescente, in latere postico castanea, extremitatibus aqualiter obtusis; umbonibus minimis, acutis, apice violaceis; lunula areaque subaqualibus, regulariter plicatis, violaceo maculatis.

THE LUZON MACTRA. Shell transversely triangular, equilateral, rather symmetrically swollen, slanting equally on each side, anterior side faintly grooved, the grooves more or less fading in the middle, shining, pale brown or whitish-red, chestnut on the posterior side, extremities equally obtuse; numbers very small, sharp, violet at the apex; lumber and area nearly equal, regularly plicated, spotted with violet.

DESHAYES, Pro. Zool. Soc. 1854. Hab. Island of Luzon, Philippines.

A smooth reddish-ash fawn shell, violet-tipped at the umbocs, chiefly remarkable for its equilateral oblong triangular form.

Species 82. (Mus. Cuming.)

MACTRA MERA. Mact. testá ovato-trigoná, turgidulá, lævigalá, nitidá, inæquilaterali, corneo-flavescente, ad umbones rufescente, zonulis transversatibus saturatioribus
distanter interruptá, intus corneo-rufescente, latere antico paulo breviore, obtuso, supernè declivi et convexiusculo, postico attenuato, valdè declivi, umbones versus
convexiusculo; umbonibus depressis, parum obliquis,
approximatis, acutis; lunulá areáque ovatis, tumidiusculis, regulariter plicatis.

THE PLAIN MACTRA. Shell ovately triangular, rather swollen, smooth, shining, inequilateral, horny-yellowish, reddish at the umboes, distantly interrupted with darker transverse zones, interior horny-red, anterior side a little the shorter, obtuse, slanting and rather convex at the upper part, posterior side attenuated, very slanting, rather convex towards the umboes; umboes depressed, a little oblique, approximated, sharp; lunule and area ovate, rather swollen, regularly plicated.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. China Sea.

A subtriangular rather swollen shell, of a peculiar livid rose bue, irregularly obscurely banded across.

Species 83. (Mus. Cuming.)

MACTRA ANGULIFERA. Mact. testá ovato-troponá, transversá, compressá, utroque latere hiante, subæquitaterali, candidá, nitidá, transversim obsoletè irregulariter striatá, latere antico breviore, obtuso, supernè concaviusculo, postico dectivi, brevì, truncato, angulo acuto angusto obliquè decurrente; umbonibus brevibus, depressis, obliquis, tenuè regulariter plicatis; tunulá ovatá, lævigatá, concaviusculá, arrá angustá, concavá.

THE ANGLED MACTRA. Shell ovately triangular, transverse, compressed, gaping on both sides, nearly equilateral, white, shining, transversely obsoletely irregularly striated, the anterion side the shorter, obtuse, rather concave at the upper part; posterior slanting, short, truncated, with a sharp narrow angle running down obliquely; umboes short, depressed, oblique, thinly regularly plicated; lunule ovate, smooth, rather concave, area narrow, concave.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Island of Ticao, Philippines; Cuming.

A very compressed shining white species, with a singularly oblique keel-edged area.

Species 84. (Mus. Cuming.)

Mactra symmetrica. Mact. testă trigonă, æquilaterali, turgidulă, lævigată, nitidă, ad marginem inferiorem transversim sulcată, pallide flavicante, lateribus æqualiter declivibus et attenuatis, superue convexiusculis, margine inferiore regulariter arcuato; lunulă arcăque æqualibus, eleganter plicatis; umbonibus minimis, acutis, oppositis, autice maculă violaceă notatis.

The symmetrical Mactra. Shell triangular, equilateral, rather swollen, smooth, shining, transversely grooved at the lower margin, pale yellowish, sides equally slanting and attenuated, rather convex at the upper part, lower margin regularly arched; lunule and area equal, elegantly plicated; umboes very small, sharp, opposite, marked in front with a violet spot.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. --- ?

A plain *Donax* - like species, of a uniform yellowish stone-colour, particularly neatly plaited on the lunule and area.

Species 85. (Mus. Cuming.)

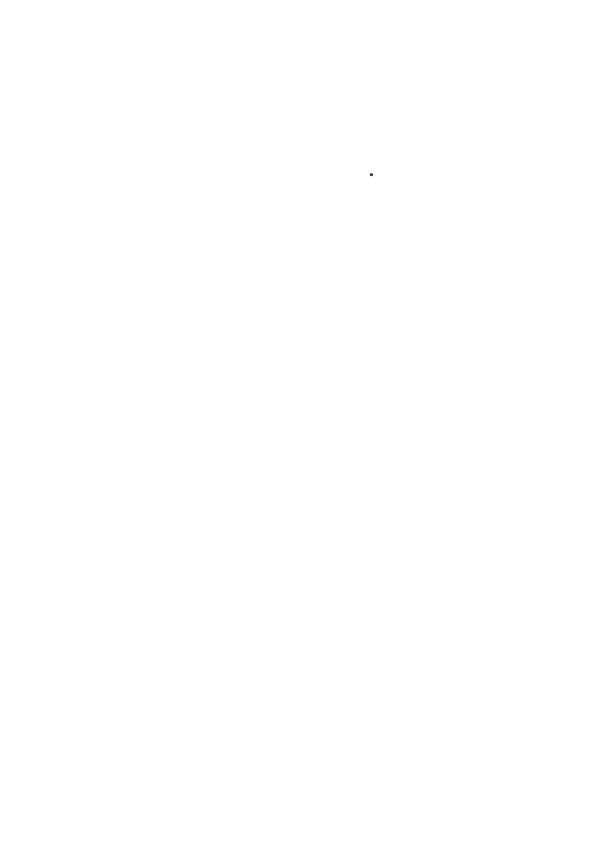
MACTHA REEVEL. Mact, testá rotundato-trigoná, inflatá, solidá, subæquilaterali, transversim obsolelè striatá epidermide tenui stramineá tenuè striatá lamellosá indutá, albo-rufescente, maculis sparsis inæqualibus fuscis ornatá, posticè castaneo-tinctá, latere antico paulo breviore, talè rotundato, postico attenuato, declivi, brevitruncato; umbomibus prominulis, approximatis; lunulá areágue subindistinctis, simplicibus.

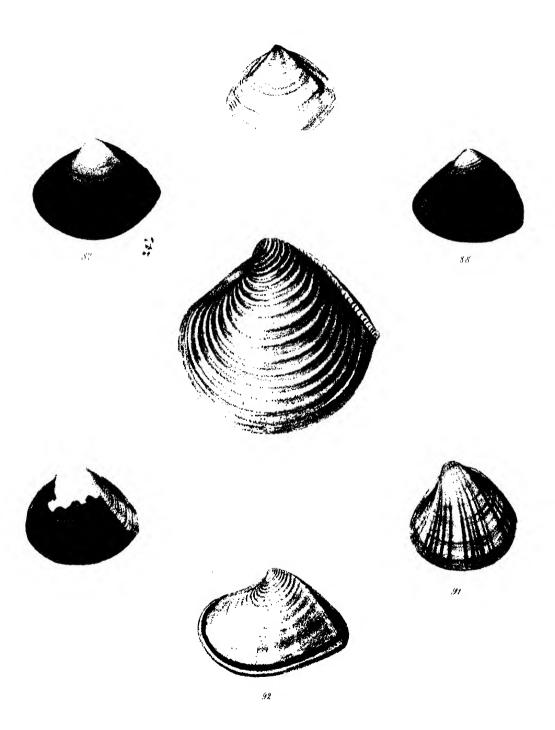
REEVE'S MACTRA. Shell rotundately triangular, inflated, solid, nearly equilateral, transversely obsoletely striated, covered with a thin finely striated lamellous straw-coloured epidermis, whitish-red, ornamented with a few unequal brown spots, posteriorly chestnutstained, anterior side a little the shorter, broadly rounded, posterior attenuated, slanting, shortly trancated; umboes rather prominent, approximated; lunule and area rather indistinct, simple.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. New Caledonia.

Allied to M. maculata, but more solid and Cytherwilike, less attenuated posteriorly.





the lid of hill. Vincent Brooks Imp

PLATE XVII.

Species 86. (Mus. Cuming.)

MACTBA CONTRARIA. Mact. testá ovato-trigoná, æquilaterali, compressiusculá, nitidá, transversim obsolelè
tennissimè striatá, utroque latere convexo, declivi, subangulatis, margine inferiore valdè arcuato; lunulá
arcuque sulcatis, sulcio lunulæ profundis, infernè convergentibus, rugis brevibus ad extremitate anticá, albidú; nmbonibus minimis, violaceo-tinctis.

THE CONTRARY MACTRA. Shell ovately triangular, equilateral, rather compressed, shining, transversely obsoletely very finely striated, rather convex, slanting and slightly angled on both sides, lower margin very much arched; lunule and area grooved, grooves of the lunule deep, converging at the lower part, with short wrinkles at the anterior extremity, whitish; umboes very small, tipped with violet.

Deshayes, Pro. Zool. Soc. 1854.

Hab. --- ?

A rather thin triangularly compressed shell, peculiarly plait-wrinkled at the anterior extremity, with the umboes tipped in a characteristic manner with violet.

Species 87. (Mus. Cuming.)

Macta in Inequialis. Mact. testá ovato-transversá, sublrigoná, imequilaterali, compressiusculá, ad maryinem inferiorem acutiusculá, politá, nitente, epidermide flavescente corneá indutá, latere antico longiore, subattenuato, obluso, postico angulato; lunulá areáque tenuiplicalis; umbonibus brecibus, acutis, oppositis.

The UNEQUAL MACTRA. Shell ovately transverse, subtriangular, inequilateral, rather compressed, rather sharp at the lower margin, polished, shining, covered with a yellowish-horny epidermis, anterior side the longer, rather attenuated, and obtuse, posterior angled; lunule and area thinly plicated; umboes short, sharp, opposite.

DESHAYES, Pro. Zool. Soc. 1854. Hab. China Sea.

A smooth pallid shell, covered towards the margin with a warm yellowish-horny epidermis, peculiar in having the anterior side longer than the posterior.

Species 88. (Mus. Cuming.)

MACTRA TRANSVERSA. Mact. testa ovato-oblonga, trans-

versă, subaquilaterali, solidiusculă, compressă, albidă, epidermide squalide flavicante, transversim regulariter sulcată, latere antico declivi, subacuminato, postico angulo acuto inferne terminato, oblique truncato, angula decurrente; umbonibus parvis, acutis, oppositis.

THE TRANSVERSE MACTRA. Shell ovately oblong, transverse, nearly equilateral, rather solid, compressed, whitish, covered with a dull yellowish epidermis, regularly transversely grooved, anterior side slanting, rather acuminated, posterior terminating at the lower part with a sharp angle, obliquely transated, with an angle running down; umboes small, sharp, opposite.

DESHAYES, Pro. Zool, Soc. 1854.

Hab. ---- ?

A triangularly compressed shell, of rather solid growth, transversely grooved, covered with a dull ochraceous epidermis.

Species 89. (Mus. Cuming.)

MACTRA ELEGANS. Mact. testă rotundato-trigonă, tumidă, tenni, diaphano-atbă, epidermide fibrosă ad marginem indută, æquilaterali, antice rotundată, postice subrostrată et lamellato-carinată, transversim concentrice undique costată; tunulă cordată, concavă, lævigată, areă angustă, concavă, utrinque carinată; umbonibus approximatis.

The elegant Mactra. Shell rotundately triangular, swollen, thin, diaphanous-white, covered at the margin with a fibrous epidermis, equilateral, anteriorly rounded, posteriorly slightly beaked and lamellately keeled, transversely concentrically ribbed throughout; lunule heart-shaped, concave, smooth, area narrow, concave, keeled on each side; umboes close.

SOWERBY, Tankerville Catalogue, Appendix, p. 2. pl. 1. f. 3. Hab. Florida.

This truly elegant species, first described and figured by Mr. Sowerby in the Tankerville Catalogue, is of a triangularly globose form, and of thin diaphanous-white substance, prominently concentrically ribbed throughout.

Species 90. (Mus. Cuming.)

MACTRA SUBTRUNCATA. Mact. testá ovato-subtrigoná, inæquilaterali, transversim striato-sulcatá, sub epidermide sordidò flavescente cretaceo-albá, latere antico rotundato, postico subrostrato, longiore; area lunulaque
esubamplis, striatis; ligamento extus conspicuo; umbytibus approximatis.

The Subtruncate Mactra. Shell ovately subtriangular, inequilateral, transversely striately grooved, chalk-white beneath a dirty-yellowish epidermis, auterior side rounded, posterior slightly beaked, longer; area and lumule rather large, striated; ligament conspicuous without; umboes approximated.

Montagu, Testacea Britannica, p. 93, and Sup. p. 37. pl. 27. f. 1.

Trigonella subtruncata, Da Costa.

Mactra lactea, Poli.

Mactra truncata, Brown.

Mactra deltoides, Collard.

Spisula subtruncata, Gray.

Hab. European Seas.

A rather solid epidermis-covered shell, somewhat resembling Gnathodon in general aspect.

Species 91. (Mus. Cuming.)

MACTRA RADIOLATA. Mact. testá trigoná, obliquá, inæquilaterali, turgidá, cordiformi, sub epidermide flavescente tenuissimá albá, roseo radiolatá, latere antico
paulo breviore, laté rotundato, postico rapidé declivi,
attenuato; lunulá areáque convexiusculis, regulariter
plicato-striatis; umbonibus tumidis, prominentibus, parum obliquis.

THE FINELY-RAYED MACTRA. Shell triangular, oblique, inequilateral, swollen, heart-shaped, white, finely

rayed with rose beneath a very thin yellowish epidermis, anterior side a little the shorter, broadly rounded, posterior rapidly slanting, attenuated; lunule and area rather convex, regularly plicately striated; umboes swollen, prominent, a little oblique.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Island of Zebu, Philippines; Cuming.

Distinguished by its shortly triangular form, and delicately red-rayed painting.

Species 92. (Mus. Cuming.)

MACTRA REEVESII. Mact. lestá elonguto-transversá, donaciformi, inæquilaterati, compressá, albá, ad umbones
eleganter concentrice plicatá, deinde lævigatá, nitidá,
latere antico longiore subarcuato et rostrato, postico
oblique truncato, angulatis, lateribus ambobus hiantibus;
lunulá impressá, lanceoluto-ovatá, area magná, concavá,
utrinque carinatá.

Reeves's Mactra. Shell clongately transverse, donax-shaped, inequilateral, compressed, white, concentrically elegantly plaited about the umboes, then smooth, shining, anterior side rather arched and beaked, posterior obliquely truncated, angled, both sides gaping; lunule impressed, lanceolately ovate, area rather large, concave, keeled on each side.

GRAY, Ann. and Mag. Nat. Hist. 1837, p. 372. Hab. Malacea.

A very characteristic peculiarly oblong arched transverse shell, of subtransparent substance, gaping at both ends.

Mactra PlAVIII

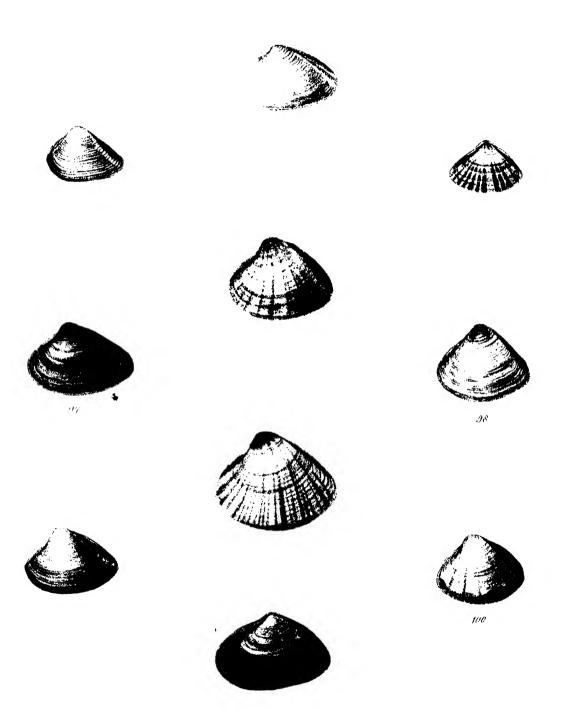


PLATE XVIII.

Species 93. (Mus. Cuming.)

MACTRA ANGUSTA. Mact. testá ovalo-transversá, angustá, subtrigoná, subæguilaterali, compressá, albá, tenui, fragili, transcersim regulariter strialá, latere antico paulo breciore, obluso, supernè concaviusenlo, postico supernè declici, altenuato; areá angustá, elongatá, planulatá, atrinque liratá; umbonibus minimis, parum obliquis, regulariter andato-plicatis; lunulá minimá, lanceolatá.

THE NARROW MACTRA. Shell ovately transverse, narrow, rather triangular, nearly equilateral, compressed; white, thin, fragile, transversely regularly striated, auterior side a little the shorter, obtuse, rather concave at the upper part, posterior side slanting at the upper part, attenuated; area narrow, elongated, flat, with a ridge on each side; umboes very small, a little oblique, regularly wave-plaited; lunule very small, lanceolate.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Panama; Cuming.

A slender subtransparent Telleu-like shell, delicately wave-plaited around the umboes.

Species 94. (Mus. Cuming.)

Mactra triangula. Mact, lestá gibboso-trigoná, Corbulaformi, crassinsculá, inaquilaterali, utrinque obtusè carinatá, transversim sulcato-striatá, sordidè albá, latere antico rotundato, postico concavo-attenuato, subrostrulo; umbonibus tumidis, approximatis; lunulá areáque amplis, latis.

The TRIANGULAR MACTRA. Shelf gibbously triangular, Corbula-shaped, rather thick, inequilateral, obtusely keeled on each side, transversely groove-striated, dull white, anterior side rounded, posterior concavely attenuated, somewhat beaked; umboes swollen, close; bunde and area large and broad.

RENIERI, Philippi, Enum. Moll. Sicil. p. 11.

Mactra Envinica, Krynicki.

Hab. Mediterranean.

A rather solid Corbula-shaped species, strongly striated across, of a dull stone-colour.

Species 95. (Mus. Cuming.)

Mactra opposita. Mact. testá trigoná, cuneiformi, æquilaterali, transversim striatá, ad umbones tævigatá, nitente, violaceo-albá, obscurè fasciatá, pallidè roseo radiatá; lunulá areáque subamplis, æqualibus, eleganter striatis, violaceo-fusco tinctis; umbonibus approximalis, intensè violaceis.

The opposite Mactra. Shell triangular, wedge-shaped, equilateral, transversely striated, smooth and shining at the umboes, violet-white, obscurely banded, rayed with pale rose; lunule and area rather large, equal, elegantly striated, stained with violet-brown; umboes close, deep violet.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Island of Luzon, Philippines; Cuming.

A triangular subequilateral species, faintly rose-rayed, peculiarly stained with violaceous-brown on the area and lunule, with the umboes tipped with very dark violet.

Species 96. (Mus. Cuming.)

Mactra lurida. Mact. testá subglobosá, tuaidá, inæquilaterali, pallidè cinereá, roseo obscurè tenniradiatá, versus umbones incarnato-linctá, latere antico rotundato, postico arcuato-producto; lunulá arcágne eleganter striatis, violacco-fuscescente tinctis; umbonibus subobliquis, approximatis, intus intensè riolaceo-radiatá.

THE LURID MACTRA. Shell subglobose, swollen, inequilateral, pale, ash, obscurely finely rayed with rose, flesh-tinged towards the umboes, anterior side rounded, posterior areuately produced; lunule and area elegantly striated, stained with light violet-brown; umboes rather oblique, opposite, interior deep violet-rayed.

PHILIPPI, Abbild. und Besch. Conch. Mactra, p. 136. pl. 3. f. 3.

Hab. Island of Liewkiew, China Sca; Philippi. Island of Negros, Philippines & Cuming.

A swollen gibbous species, flesh-tinged about the umboes, and richly stained in the interior with broad violet rays.

Species 97. (Mus. Cuming.)

MACTRA ATTENUATA. Mact. testá ovato-trigoná, transversá, tenni, turgidá, inæquilaterali, transversim irregulariter densè striatá, lividè violaceá, ad umbones atro-violaceá, intus pallidè violaceá, latere antico breviore, obtuso, supernè declivi, latere postico declivi, truncato; umbonibus brevibus, parum obliquis, approximalis; area elongato-ocata, lunulaque tenuistriatis; cardine angusto, fossula profunda; dentibus lateralibus lamellosis, prominentibus, antico multo breviore; sinu pullii lato, rix executato.

The attenuated Mactra. Shell ovately triangular, transverse, thin, swollen, inequilateral, transversely irregularly thickly striated, livid-violet, blackish-violet at the umboes, paler violet within, anterior side the shorter, obtuse, slanting at the upper part, posterior side slanting, truncated; umboes short, a little oblique, approximated: area clongately ovate, and with the lunule finely striated; hinge narrow, pit deep; lateral teeth lamellous, prominent, the anterior much the shorter; sinus of the mantle broad, scarcely excavated.

DESHAYES, Pro. Zool. Soc. 1854. Hab. ——?

Of a peculiar dark livid ash-violet colour within and without, somewhat unusually attenuated towards the posterior extremity.

Species 98. (Mus. Cuming.)

MACTRA CORNICULOIDES. Mact. testá trigono-subquadralá, crassiusculá, turgidá, subaquiluterali, licidoalbidá, ad unbones intense coenteá, tutere antico.

tondato, postico concaro-rosteato; tuontá areaq magnis, latis, subconcaris; umbonibus tumidis, approximatis, intus intensi cærulev-violaceá.

The LITTLE BASKET MACTRA. Shell triangularly subquadrate, rather thick, swollen, nearly equilateral, livid white, deep blue at the umboes, anterior side rounded, posterior concavely beaked; lunule and area large, broad, subconcave; umboes swollen, close, interior deep blue-violet.

DESHAYES, Pro. Zool. Soc. 1854. Hab. Ceylon; E. L. Layard.

A short triangularly gibbous species, rather thick, deep blue-violet at the umboes, and especially deep-dyed with the same colour in the interior.

Species 99. (Mus. Cuming.)

MACRA LATERALIS. Mact. testá trigono-ovatá, inæquilaterali, transversim subirregulariter sulcato-striatá, squalidè albá, epidermide fuscescente partim indutá, latere antico brevi, oblusè angulato, postico attenuato, subrostrato; lunulá areáque subamplis, dense striatis; umbonibus angulatis, approximatis,

THE LATERAL MACTRA. Shell triangularly ovate, inequilateral, transversely rather irregularly groove-striated, dirty-white, partially covered with a brownish epidermis, anterior side short, obtusely angled, posterior attenuated, somewhat beaked; lunule and area rather large, closely striated; umboes angular, approximated

SAY, Journ. Acad. Nat. Sci. Philadelphia, vol. ii. p. 309. Hab. Massachusetts, United States; Gould.

A simple triangularly ovate species, of a stone-white hue, attenuately produced at the posterior end,

Species 100. (Mus. Cuming.)

MACTRA INCONGRUA. Mact. testá trigoná, gibbosá, subæquitaterati, tenniculai, hexigatá, calcurco-albá, lateribus obtusè angulatis, postico subproducto; lunulá areáque ocutis, latiusculis, eleganter plicato-striatis; umbonibus approximatis.

THE INCONGRUOUS MACTRA. Shell triangular, gibbous, nearly equilateral, rather thin, smooth, chalk-white, sides obtusely angled, the posterior rather produced; lumule and area ovate, rather broad, elegantly plicately striated; umboes close.

DESUAYES, Pro. Zool, Soc. 1854.

Hab. Island of Luzon, Philippines; Cuming.

The chief peculiarity of this species, consists in the innule and area being elegantly plicately striated, while the rest of the shell is smooth.

Species 101. (Mus. Cuming.)

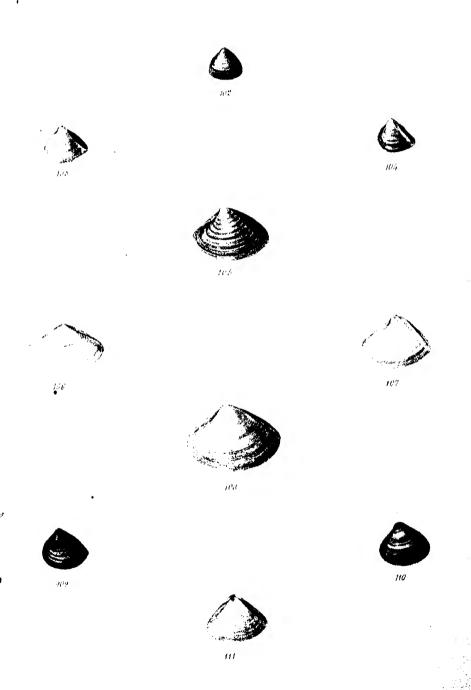
Mactra elliptica. Mact. testá trigono-ellipticá, compressá, crassiusculá, subæquilaterati, transcersim rude plicatá et striatá, lateribus rotundatis, antico sublongiore; lunulá areáque angustis, indistinctis; umbonibus minimis, approximatis.

THE ELLIPTIC MACTRA. Shell triangularly elliptic, compressed, rather thin, nearly equilateral, transversely rudely plicated and striated, sides rounded, anterior rather the longer; lunule and area narrow, indistinct; umboes very small, close.

Brown, Illus. Conch. Brit. p. 109. pl. 41. f. 6. IIab. British and French Seas.

A rather solid rudely plicated compressed shell, with the anterior side rather the longer, the umboes being very small and the lunule and area not very distinct.

Mactra Pl.XIX.



Sewerly lei et lift.

Vincent Brooks Imp.

PLATE XIX.

Species 102. (Mus. Cuming.)

Mactra nucleus. Mact. testă trigono-quadrată, compressă, aquilaterali, squalide albă; umbonibus submucronalis; lunulă areăque angustis, declivis, indistinctis.

The Kernel Mactra. Shell triangularly square, com-

pressed, equilateral, dirty white; umboes rather pointed; lunule and area slanting, narrow, indistinct.

CONRAD, Journ. Acad. Nat. Sci. Philadelphia, vol. 6. pl. 11. f. 4.

Hab. Bay of Manilla; Cuming. North America; Conrad.

A minute triangularly square compressed species, the smallest of the genus.

Species 103. (Mus. Cuming.)

Mactea Corbulioides. Mact. testá trigono-ovatá, gibbosiusculá, inæquilaterati, lævigutá, albá, nitente, latere antico rotundato, postico laté trigono, arcuato-rostrato; lunulá minimá, areá maximá.

The Corbula-like Mactra. Shell triangularly ovate, rather gibbous, inequilateral, smooth, white, shining, anterior side rounded, posterior broadly angled, arcuately beaked; lunule very small, area very large.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. --- ?

Distinguished by a broad concavely beaked area, while the lumbe is almost obsolete.

Species 104. (Mus. Cuming).

Mactra Rostrata. Mact. testá trigoná, gibbosiusculá, inequilaterali, sordidè albá, lævigatá, latere antico rolundato, posteriore angulato-rostrato; lunulá vix nulló, areá magná, latá.

THE BEAKED MACTRA. Shell triangular, rather gibbous, inequilateral, dull white, smooth, anterior side rounded, posterior angularly beaked; lunule scarcely any, area large and broad.

Spengler, Skrift. Naturch. Selsk. vol. 5. p. 115. Hab. Moreton Bay, Australia; Strange.

Very similar to the preceding species, but shorter and more gibbous in form.

Species 105. (Mus. Cuming.)

Mactra Aphrodina. Mact. testá transversá, ovato-tri-

gona, tenni, depressiuscula, inaquilaterali, paltide ciolacea, zonulis transversis saturatioribus irregulariter interrupta, transversim regulariter eleganter striata, latere antico punlulum attenuato, supernè recto, dectivi, postico aqualiter obtuso; umbonibus minimis, acutis, albidis; cardine angusto, violaceo, utroque latere maculato; fossula minima, angusta, obtiqua; dentibus lateralibus lamellosis; valvis intus vividè riolaceis, in medio pallidioribus; impressione pallii margine inferiore remoto, sinu angusto, brevi, horizontali.

The Aphrodine Mactra. Shell transverse, ovately triangular, thin, rather depressed, inequilateral, pale violet, irregularly interrupted with darker transverse zones, transversely regularly elegantly striated, anterior side a little attenuated, straight at the upper part, slanting, equally obtuse with the posterior; umboes very small, sharp, whitish; hinge narrow, violet, spotted on both sides; pit very small, narrow, oblique; lateral teeth lamellous; valves deep violet within, paler in the middle; impression of the mautle with the lower edge remote, sinus narrow, short, horizontal.

DESHAYES, Pro. Zool. Soc. 1854. Hab. China Sens; Belcher.

A peculiarly polished *Cytherea*-like species, of a livid grey colour, obscurely banded.

Species 106. (Mus. Cuming.)

MACTRA SCALPELLUM. Mact. testā trigono-oblongā, tenui, valdē compressā, æquilaterati, tævigatā, nitente-albā, extremitatibus subattenuato-rotundatis; umbonibus minimis, approximatis; tunulā areāque angustissimis, indistinctis, plicato-striatis.

THE LANCET MACTRA. Shell triangularly oblong, thin, very compressed, equilateral, smooth, shining white, extremities rather attenuately rounded; umboes very small, close; lunule and area very narrow, indistinct, plicately striated.

DESHAYES, Pro. Zool. Soc. 1854. Hab. New Zealand; Strange.

A thin compressed species with a white polished surface, having very much the appearance of a *Tellina*.

Species 107. (Mus. Cuming.)

Mactra dolabrata. Mact. testá oblongá, trigono-subquadratá, postice paululum hiunte, æquilaterali, sub lente tenuissime transversim striatá, nitente-albá, latere antico rotundato-producto, postico abrupte declivi, obluse angulato; umbonibus peculiariter compressis, approximatis; lunulá areáque subangustis, excavatis, lævibus.

THE AXE-SHAPED MACTRA. Shell oblong, triangular, subquadrate, posteriorly a little gaping, equilateral, beneath the lens very finely transversely striated, shining white, interior side rotundately produced, posterior abruptly slanting, obtusely angled; umboes peculiarly compressed, close; lunule and area rather narrow, excavated, smooth.

DESHAYES, Pro. Zool. Soc. 1854. Hab. ——?

Peculiar in form, the anterior side being produced and rounded, while the posterior is abruptly slanting and angled.

Species 108. (Mus. Cuming.)

Maotra silicula. Mucl. lestá transversim ovatá, utrinque paululum hiante, subæquilaterali, transversim tennistriatá, nitente-albá, marginem versus epidermide stramineá sericeá indutá, ad angulum posticum sordidá, extremitatibus rotundatis; tunulá arcáque angustis, subexcavatis; umbonibus parcix, compressis.

THE LITTLE HUSK MACTRA. Shell transversely ovate, a little gaping at each end, nearly equilateral, transversely finely striated, shining white, covered towards the margin with a silken straw-coloured epidermis, darker on the posterior angle, extremities rounded; lunule and area narrow, rather excavated; umboes small, compressed.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Mouth of the Gambia, West Africa (in the sands).

A transversely oval thin shining white shell, covered towards the margin with a straw-coloured epidermis, which on the posterior angle and area is wrinkled up into a darker colour.

Species 109. (Mus. Cuming.)

MACTRA CUNEATA. Mact. testá trigono-ovatá, subobliquá, inæquilaterali, lævigatá, semipellucidá, undique purpureá aut cinereo-violaceá, latere antico rotundato, postico subangulato-producto; lunulá areáque distinctis, eleganter plicato-striatis; umbonibus prominulis.

THE WEDGE-SHAPED MACTRA. Shell triangularly ovate, rather oblique, inequilateral, smooth, semi-pellucid, everywhere purple or ash, violet, anterior side rounded, posterior rather angularly produced; lunule and area distinct, elegantly plicately striated; umboes rather prominent.

CHEMNITZ, Conch. Cab. vol. 6. p. 221. pl. 22. f. 215. Mactra purpurea, Spengler.

Hab. Nicobar.

A semitransparent glassy purple shell, smooth except on the area and lunule, which are elegantly striated.

Species 110. (Mus. Cuming.)

MACTRA HEPATICA. Mact. testá transversim ovatá, gibbosissimá, subæquilaterali, lævigatá, politá, ad latera mulcato-striatá, purpureo-lividá, latere antico rotundato, postico subattenuato, lunulá areáque subindistinctis, latis, strialis; umbonibus valdè tumidis.

THE LIVER-COLOURED MACTRA. Shell transversely ovate, very gibbous, nearly equilateral, smooth, polished, grooved-striated at the sides, purple-livid, anterior side rounded, posterior slightly attenuated; lunule and area rather indistinct, broad, striated; umboes much swollen.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Island of Negros, Philippines; Cuming.

Chiefly distinguished by its swollen gibbous umboes, which gives the shell an Arca-like aspect.

Species 111. (Mus. Cuming.)

Mactra apicina. Mact. testă trigono-ovată, versus marginem compressă, æquilaterali, transversim sulcalolirată, versus umbones læcigată, albă, nitente, lateribus subæqualiter rotundatis; lunulă areăque magnis, eleganter plicato-striulis; umbonibus parvis, centralibus, oppositis, violaceo tinctis.

THE TIPPED MACTRA. Shell triangularly ovate, compressed towards the margin, equilateral, tsansversely groove-ridged, smooth towards the umboes, white, shining, sides nearly equally rounded; lunule and area large, elegantly plicately striated; umboes small, central, opposite, tipped with violet.

DESHAYES, Pro. Zool. Soc. 1854.

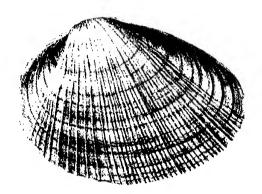
Hab. --- ?

An equilateral wedge-shaped species, polished white, with the umboes tipped with violet.















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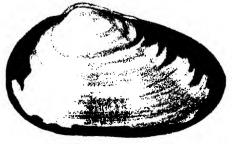


PLATE XX.

Species 112. (Mus. Cuming.)

Mactra Egyptiaca. Mact. testă transversim oblongă, valde inæquilaterali, utrinque hiante, tenuiculă, candidă, versus extremitates epidermide tenui indută, dense radiatim irregulariter acute lirată, tirarum interstitiis cancellato-striatis, latere antico obtuse rotundato, postico multo longiore, attenuato-rotundato, compresso; extremitatibus liris parvis oblique divergentibus exsculptis.

file Egyptian Mactra. Shell transversely oblong, very inequilateral, gaping at each end, rather thin, white, covered towards the extremities with a thin epidermis, densely radiately irregularly sharply ridged, interstices between the ridges cancellately striated, anterior side obtusely rounded, posterior much the longer, attenuately rounded and compressed; extremities sculptured with fine obliquely diverging ridges.

CHEMNITZ, Conch. Cab. vol. ii. p. 218, pl. 200, f. 1955-6.

Lutruria _Egyptiaca, Hanley.

Hab. Ceylon; E. L. Layard.

This species, which M. Deshayes ascribes to the M. Egyptiaca of Chemnitz, should properly have another name. The specimen here figured is from Ceylon.

Species 113. (Mus. Cuming.)

Mactra Solandri. Mact. testă transversim ovată, subcuneiformi, inequilaterali, țenui, candidă, irregulariter radiatim acute tirată, liris posticis distantioribus et acute elevatis, latere antico rotundato, postico longiore, hiante; umbonibus subappressis.

Solimber's Mactra. Shell transversely ovate, somewhat wedge-shaped, inequilateral, thin, white, irregularly radiately sharply ridged, posterior ridges more distant, and sharply raised, anterior side rounded, posterior longer, gaping; umbocs rather appressed.

Spisula Solandri, Gray, Ann. and Mag. Nat. Hist. 1837. p. 373.

Hab. Moluccas.

A thin white shell, gaping at the posterior end, with a somewhat *Petricola*-like aspect; the posterior ridges are peculiar in being more distant and sharply raised.

Species 114. (Mus. Cuming.)

MACTRA CALIFORNICA. Mact. testă transcersim oblongă, inæquilaterali, lævigată vel subrude concentrice striată, calcareo-albă, epidermide flavidă indută, lateralibus subæqualiter rotundatis, postico longiore; umbonibus minutis, approximatis.

THE CALIFORNIAN MACTRA. Shell transversely oblong, inequilateral, smooth, or rudely concentrically striated, chalk-white, covered with a yellow epidermis, sides nearly equally rounded, posterior side the longer; umboes very small, close.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. California.

This species is not distinguished by any peculiarity of form or sculpture, and has very much the appearance of a small Mya.

Species 115. (Mus. Cuming.)

MACTRA RUGOSA. Mact. testá transverse ovatá, gibbosá, utrinque hiante, valde inæquilaterali, fuscescente-albá, calcareá, radiatim irregulariter liratá, ad extremitates lævigatá, latere antico brevissimo, rotundato, postico oblongo, producto; umbonibus parvis, appressis, appressis.

The nough Mactra. Shell transversely ovate, gibbous, gaping at each end, very inequilateral, brownish-white, chalky, radiately irregularly ridged, smooth at the extremities, anterior side very short, rounded, posterior oblong, produced; umboes small, appressed, close.

CHEMNITZ, Conch. Cab. vol. vi. p. 236. pl. 24. f. 236. Lutraria rugosa, Lamarck.

Spisula rugosa, Gray.

Hab. Faro, Portugal.

A large rough species, very irregularly radiately ridged, except at the extremities, which are smooth.

Species 116. (Mus. Cuming.)

MACTRA THBACIOIDES. Mact. testd ovatá, antice gibbosá, utrinque hiante, inæquilaterali, tenui, opacualbá, concentrice dense fibrosv-striatá, oblique undulatim corrugato-plicatá, latere antico rotundato, postico compresse attenuato; tunulá subcordatá; umbonibus parvis, appressis.

THE THRACIA-LIKE MACTRA. Shell ovate, gibbous anteriorly, gaping at both ends, inequilateral, thin, opake-white, concentrically densely fibrous-striated, obliquely undulately wrinkle-plaited, anterior side rounded, posterior compressly attenuated; lunule subcordate; umbocs small, appressed.

ADAMS and REEVE, Zool. Voy. Samarang, Moll. p. 81. pl. 23, f. 8.

Hab. Eastern Seas; Belcher.

The chief peculiarity of this species consists in the waved rib-like plaits undulating upwards on the posterior side, contrary to the curious fibrous-like strike of growth.

Species 117. (Mus. Cuming.)

MACTRA CAPILLACEA. Mact. testá transverse oblongá, valde inæquilaterali, utrinque hiante, tenui, candidá, epidermide stramineá indutá, concentrice rude striatá, radiatim subtiliter undulato-corrugatim striatá, latere antico brevissimo, rotundato, postico compresso-producto, subrostrato; umbonibus parvis.

THE STRINGY MACTRA. Shell transversely oblong, very inequilateral, gaping at both ends, thin, white, covered with a light straw-coloured epidermis, concentrically rudely striated, radiately finely wave-wrinkle striated, anterior side very short, rounded, posterior compressly produced, somewhat beaked; umboes small.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Philippines and mouth of the Indus.

A delicate posteriorly produced species, distinguished by a striking peculiarity of sculpture, the surface being rayed with fine close-set cross-waved wrinkled striæ. It has been found of a very much larger size than that of the shell here figured.

Species 118. (Mus. Cuming.)

Mactra pellucida. Mact. testă transversim oblongă, compressă, utrinque hiante, inæquilaterali, albă, sub lente minutissime decussatim striată, versus margines epidermide tenui flavicante indută, latere antico retundato, postico subproducto; umbonibus parcis, approximatis.

The pellucid Mactra. Shell transversely oblong, compressed, gaping at both ends, inequilateral, white beneath the lens very minutely finely decussately striated, covered towards the margins with a thin yellowish epidermis, anterior side rounded, posterior rather produced; umboes small, close.

CHEMNITZ, Conch. Cab. vol. vi. p. 235. pl. 24. f. 234. Mactra depressa, Lamarek.

Hab. Bay of Manila.

A smooth, rather compressed species, of which the surface has a somewhat silky appearance, occasioned by extremely minute crossed striæ.

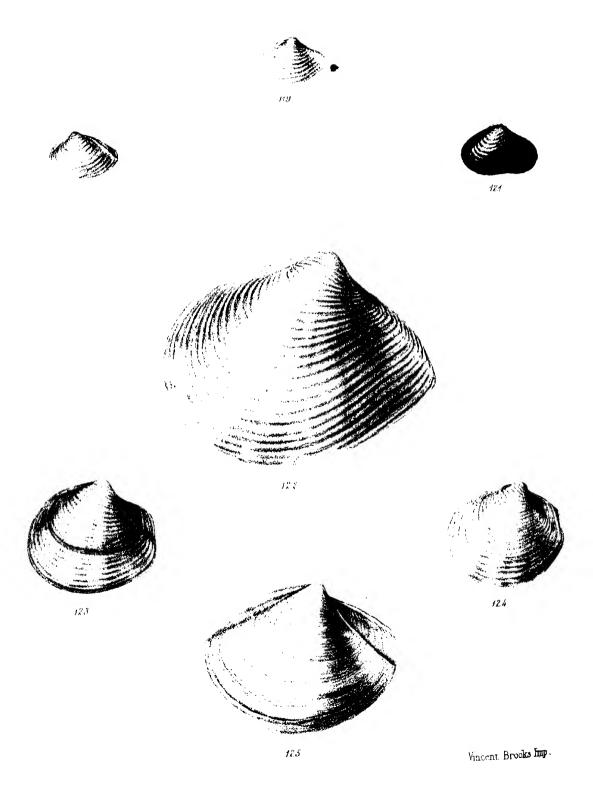


PLATE XXI.

Species 119. (Mus. Cuming.)

MACTRA ROSTRALIS. Mact. lestá transversim ovatá, postice compresso-rostratá, albá, tenuissimá, pellucidovitreá, subæquilaterali, latere antico paulo breviore, concentrice undato-plicatá, et tenuissime oblique striatá; lunulá distinctá; umbonibus parvis.

THE BEAKED MACTRA. Shell transversely ovate, posteriorly compressly beaked, white, very thin, transparent, glassy, subequilateral, anterior side a little the shorter, concentrically undulately plicated, very finely obliquely striated; lunule distinct; umboes small.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. China Seas?

A very thin transparent glassy shell, beaked on the posterior side, which is the shorter, concentrically sculptured with waved plaits converging over the posterior side, as in M. Thracioides.

Species 120. (Mus. Cuming.)

Mactra Senegalensis. Mact. testă transversim oblongă, compressă, inequilaterali, tenui, pellucido-vitreă, concentrice undato-plicată et tenuissime oblique striată, latere untico rotundato, postico longiore, carinato et truncato; umbonibus parcis.

The Senegal Mactra. Shell transversely oblong, compressed, inequilateral, thin, transparent, glassy, concentrically wave-plaited, and very finely obliquely striated, anterior side rounded, posterior longer, keeled and truncated; umbocs small.

Philappi, Zeitschrift für Malac. 1849, p. 27. Hab. Senegal.

A thin glassy Thracia-like species, of which the posterior end is finely keeled and truncated.

Species 121. (Mus. Cuming.)

MACTRA PLICATILIS. Mact. testá transversim oblongá, subangustá, medio compressá, subaquilaterali, tenui, pellucido-vitreá, epidermide fuscescente iádutá, undatoplicatá et subtilissimò obliquò striatá, latere antico rotunduto, postico sublongiore, tenuicarinato et truncato; umbonibus minutis.

THE PLAITED MACTRA. Shell transversely oblong, rather narrow, impressed in the middle, nearly equilateral,

thin, transparent, glassy, covered with a brownish epidermis, anterior side rounded, posterior rather longer, wave-plaited and very finely obliquely striated, finely keeled and truncated; umboes very small.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Philippines.

Of a narrower transversely oblong form than the preceding species, but very similarly sculptured.

Species 122. (Mus. Cuming.)

MACTRA CANALICULATA. Mact. testă ovată, antice oblique tumidă et gibbosă, postice compresso-rostrată, panlulum hiante, inæquilaterali, latere antico multo majore, tenni, candidă, epidermide stramineă indută, concentrice irregulariter plicato-costată, radiatim peculiariter tenue corrugato-striată; lunulă oblongocordată; umbonibus parvis, approximatis.

THE CHANNELLED MACTRA. Shell ovate, anteriorly obliquely swollen and gibbous, posteriorly compressly beaked, a little gaping, inequilateral, anterior side much the larger, thin, white, covered with a straw-coloured epidermis, concentrically irregularly plicately ribbed, radiately peculiarly finely wrinkle-striated; lunule oblongo-cordate; umboes small, close.

Lutraria canaliculata, Say.

Mactra Campechensis, Gray in Wood Ind. Test. Supp. Hab. South Carolina.

This fine shell is what might be termed a reversed shell, the anterior side being the larger, swollen and obliquely gibbous, while the posterior is smaller and compressly beaked.

Species 123. (Mus. Cuming.)

MACTRA ANATINOIDES. Mact. testă ovată, inæquilaterali, antică oblique tumidă, postice breviter truncato, hiante, pellucido-albă, subvitreă, concentrică irreguluriter striată et obscure plicată, ad margines epidermide indută.

THE ANATINA-LIKE MACTRA. Shell ovate, inequilateral, anteriorly obliquely swollen, posteriorly rather shortly truncated, gaping, pellucid-white, rather glassy, concentrically irregularly striated and obscurely plicated, covered with an epidermis at the margins.

Mactra tenera? Deshayes (not of Gray in Wood Index Test. Supp.). Hab. ----

A thin swollen pellucid-white shell, truncated and gaping at the posterior end, with very much the aspect of an Anatina.

Species 124. (Mus. Cuming.)

MACTRA PELLICULA. Mact. testá abbreviato-oratá, inaquitaterati, anticè rotundatá et tunidá, posticè rostratá et truncatá, hiante, tennissimá, pellucido-alhá, subrnalè striatá; umbonibus parvis, acutis.

THE PELLICLE MACTRA. Shell shortly ovate, inequilateral, anteriorly rounded and swollen, posteriorly beaked and truncated, gaping, very thin, pellucid-white, rather rudely striated; umboes small, sharp.

Deshayes, Pro. Zool. Soc. 1854.

Hab. Japan.

Of a thin transparent pellicle-like substance, of a shorter and more beaked form than that of the preceding species.

Species 125. (Mus. Cuming.)

Mactra Nuttallii. Mact. testá ovatá, plano-compressá,

inæquilaterali, pellucido-albá, concentrice tennisulcata et striatá, striis flexuosis radiantibus minutissine cancellatá; latere antico multo majore, superne decliviangulato, postico coarctato, compresso-rostrato, carinato, hiante, extremitatibus lamellato-recurcis; lunuta perampliter cordatá; umbonibus parcis, acutiusculis.

NUTTALL'S MACTRA. Shell ovate, flatly compressed, inequilateral, transparent white, concentrically finely grooved and striated, very minutely cancellated with flexuous radiating striæ; anterior side much the larger, angularly slanting at the upper part, posterior side contracted, compressly beaked, keeled, gaping, with *the extremities lamellarly recurved; lumbe largely cordate; umboes small, rather sharp.

Lutraria (Cyptodon) Nuttattii, Conrad, Journ. Acad. Nat.
 Sci. Philadelphia, vol. vii. p. 235. pl. 18. f. 1.
 Mactra recurva, Gray in Wood Index. Test. Supp.
 Hab. South Carolina.

A very characteristic transparent white compressed species, peculiarly contracted on the posterior side, with the extremities lamellarly curved outwards.

MACTRA. *

Adamsoni, Philippi	. 01 = 2	Plate. XII.	Species.	Durani Darkawa	Plate.	Species
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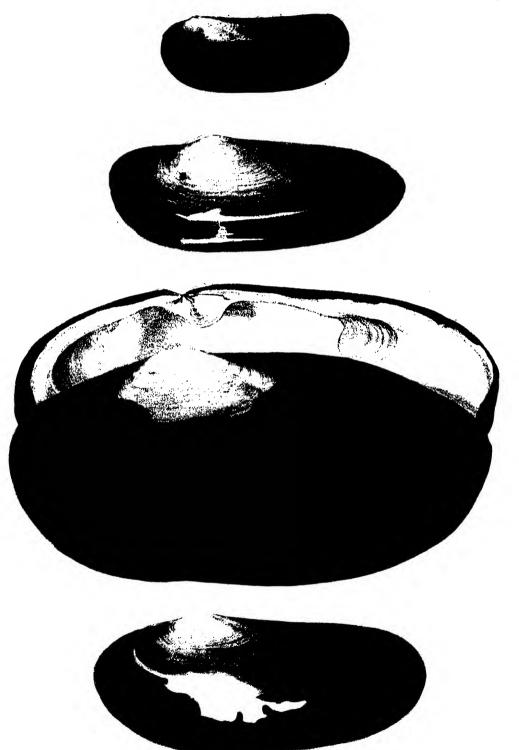
MONOGRAPH

OF THE GENUS

LUTRARIA.

"I loved to walk where none had walked before,
About the rocks that ran along the shore:
Here had I favourite stations where I stood,
And heard the murmurs of the ocean-flood."—Crabbe.





Genus LUTRARIA, Lamarck.

Testa aquivalvis, inaquilateralis, oblongo-ovala, pa compressivacula, lateribus hians, sordide alba. enidermide fuscă vel olivaceo-fuscă plus minus, induta. Cardo centralis, latus, dentibus duobus plano-cochles ariformibus lamind trigond erecte, dentibus lateralibus nullis. Impressio muscularis pallii sinu maono. Shell equivalve, inequilateral, oblong-ovate, generally rather compressed, gaping at the sides, dirty-white. covered more or less with a brown or olive-brown Hinge central, broad, with two flat epidermis. spoon-like teeth, and an erect triangular lamina. no

lateral teeth. Muscular impression of the mantle

with a large sinus.

Of the miscellaneous assemblage of species described by Lamarck under this head, only two remain as true representatives of the genus, Lutraria oblonya and L. elliptica, both inhabitants of the British Seas. More than a dozen species from foreign sources have since been added of the same exact type, and we have the pleasure of illustrating them as a very natural and well-defined group. The most abnormal forms are those which have been separated by Mr. Gray under the generic title of Zenatia, comprising I. acinaces, Deshayesii, and Cumingiana; and L. lanceolata, which is the genus Resania of Mr. Gray. In the last the interior of each valve is characterized by two very prominent ledges converging from the hinge, on one of which rests the broad spoon-shaped tooth, as represented in Plate V. They are all of a smooth dull colourless hue, more or less covered with a dirty-brown or olive epidermis, and present no sculpture beyond strize or wrinkles following the lines of growth. The species are limited in number and widely distributed, being from Australia, New Zealand, Moluccas, Philippines, China, and the Cape of Good Hope. They are all natives of the Old World.

Species 1. (Mus. Cuming.)

Lutraria Deshayesii. Lutr. testa elongato-oblonga, tenuiculă, subangustă, concentrice dense striată, striis subrugaformibus; lateribus aqualiter rotundatis, antico prælongo, valdè hiante ; ferrugineo-carned, epidermide viridi-olivaced induta.

Deshayes' Lutraria. Shell elongately oblong, thinnish, rather narrow, concentrically densely striated, strize somewhat wrinkle-like; sides equally rounded, the anterior very long, much gaping; rust-fleshtinged, covered with a greenish-olive epidermis.

Lutraria Solenoides, Deshayes (not of Lamarck). Hab. New Zealand; Earl.

A thin delicate Solen-like shell, with the peculiar shelflike tooth which serves to characterize Mr. Gray's genus Zenatia, conspicuously developed.

Species 2. (Mus. Cuming.)

LUTHABIA BLONGATA. Lutr. testa elongata, ventricosiuscula, latere portico late rotundato, antico attenuatorotundato r concentrice irregulariter striata, striis medio subobsoletis, ad latera rugæformibus; albida, epidermide lutescente-cinered induta.

THE ELONGATED LUTRARIA. Shell elongated, rather ventricose, posterior side broadly rounded, anterior attenuately rounded; concentrically irregularly striated, strize nearly obsolete in the middle, wrinklelike at the sides: whitish, covered with a vellowishash epidermis.

GRAY, Ann. and Mag. Nat. Hist. 1837. Hab. ---

Chiefly distinguished by the subattenuated form of the anterior side of the shell.

Species 3. (Mus. Cuming.)

LUTRARIA ELLIPTICA. Lutr. testá ovato-oblongá, subventricosa, irregulariter concentricè striata, striis hic illic rugæformibus : lateribus subægualiter rotundatis, antico longiore; incarnato-alba, epidermide virescenteolivaceá indutá.

THE ELLIPTIC LUTRARIA. Shell ovately oblong, subventricose, irregularly concentrically striated, striæ here and there wrinkle-like; sides nearly equally rounded, anterior the longer; flesh-tinted white, covered with an olive-green epidermis.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vi. p. 90. Mactra lutraria, Linnæus.

Hab. Seas of Europe.

This well-known European species, compared with the rest of the genus, has a peculiar Anodon-like aspect.

Species 4. (Mus. Cuming.)

LUTRARIA PHILIPPINARUM. Intr. testá elongato-oblongá, ventricosa, subobliqua, concentricè tenuistriata, striis anticis rugaformibus; lateribus subattenuato-rotundatis, antico paulo rostrato, averte hiante: albida, epidermide tenui cinereo-lutescente induta.

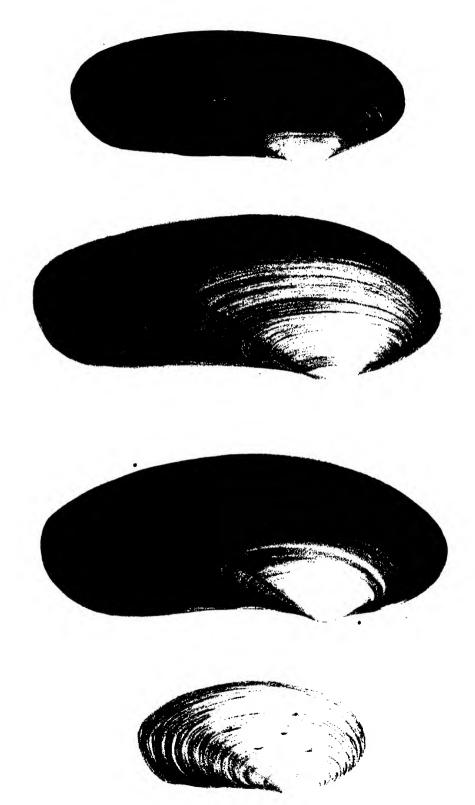
THE PHILIPPINE LUTRARIA. Shell elongately oblong, ventricose, rather oblique, concentrically finely striated, anterior strise wrinkle-like; sides somewhat attenuately rounded, anterior a little beaked, openly gaping; whitish, covered with a thin ash-yellow epidermis.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Philippine Islands; Cuming.

Distinguished by its elongately oblong form and by the more attenuated roundness of the sides, the anterior of which is a little beaked and openly gaping.





II ld minimy

PLATE II.

Species 5. (Mus. Cuming.)

Lutraria curta. Lutr. testá oblongo-ovatá, curtá, subobliquá, solidiusculá, ad latera laté hiante, latere postico subattenuato-rotundato, antico abrupté truncato; concentrice rugoso-striatá, albá.

THE SHORT LUTRARIA. Shell oblong-ovate, short, somewhat oblique, rather solid, broadly gaping at the sides, posterior side somewhat attenuately rounded, anterior abruptly truncated; concentrically roughly striated, white.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Philippine Islands.

This species has very much the aspect of an Anatina, being much truncated at the anterior side, and more than usually gaping.

Species 6. (Mus. Cuming.)

LUTRARIA ARCUATA. Lutr. testá arcuato-oblongá, subobliquá; lateribus rotundatis, laté hiantibus, postico attenuatiore; concentrice tenuissime striatá, subpellucido-albá, epidermide eximiá corneá fulvescente-cinereá indutá.

THE ARCHED LUTRARIA. Shell arcuately oblong, rather oblique; sides rounded, widely gaping, the posterior the more attenuated; concentrically very finely striated, subtransparent white, covered with a delicate light fulvous-ash horny epidermis.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Philippine Islands.

Beautifully characterized by its elegantly arched growth and delicate texture and epiderinis.

Species 7. (Mus. Cuming.)

LUTRARIA OBLONGA. Lutr. testa elongato-oblonga, ven-

tricosă, subarcuată, latere postico attenuato-rotundato, antico latiore, aperte hiante; sordide albă, rugosostriată, epidermide cinereo-fuscă indută.

THE OBLONG LUTRARIA. Shell elongately oblong, ventricose, slightly arched, posterior side attenuately rounded, anterior broader, openly gaping; dirtywhite, roughly striated, covered with an ash-brown epidermis.

TURTON, Conch. Dith. Ins. Brit. p. 64. pl. 5. f. 6.

Mya oblonga, Gmelin.

Chama magna, Da Costa.

Mactra hians, Dillwyn.

Lutraria Solenoides, Lamarck.

Lutricola Solenoides, De Blainville.

Hab. European Seas.

Of rough slightly arched growth, ventricose and attenuately rounded at the posterior side.

Species 5. (Mus. Cuming.)

LUTRARIA DISSIMILIS. Lutr. testá oblongá, rectá, crassiusculá, rugosá; lateribus rotundatis, antico sublatè hiante, postico attenuatiore; concentricè striatá, striis rugosis et irregularibus, incarnato-albá, epidermide sordidè fuscá corrugatá indutá.

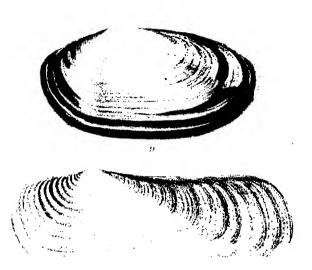
THE DISSIMILAR LUTRABIA. Shell oblong, straight, rather thick, rough; sides rounded, anterior rather widely gaping, posterior the more attenuated; concentrically striated, strice rough and irregular, fleshwhite, covered with a dirty-brown shrivelled epidermis.

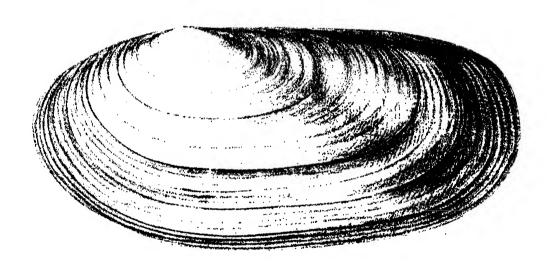
DESHAYES, Pro. Zool. Soc. 1854.

Hab. --- ?

A species of very distinctive character, roughly striated with a peculiarly shrivelled epidermis. Locality unknown.

Lutraria, Pl. III.





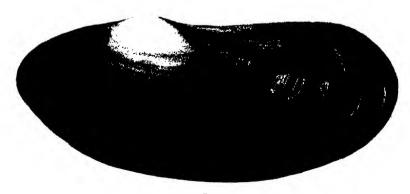


PLATE III.

Species 9. (Mus. Cuming.)

LUTBARIA CAPENSIS. Lutr. testá oblongo-ovatá. latiusculá, compressá; lateribus subdeclivibus, subattenuatorolundatis, latere antico radiatim indentato-impresso: concentrice striata, striis ad latera et prope marginem subrugosis; ferrugineo-albá, epidermide sordide suscescente prope marginem induta.

THE CAPE LUTRARIA. Shell oblong-ovate, rather broad. compressed; sides slanting and attenuately rounded, anterior side radiately indently impressed; concentrically striated, strice rather rough at the sides and near the margin; rust-white, covered near the margin with a dirty light brown epidermis.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Cape of Good Hope.

Rather broader, and more slanting from the umboes to the lateral extremities, than the rest of the species, and compressed towards the margins.

Species 10. (Mus. Cuming.)

LUTRARIA IMPAR. Lutr. testá subquadrato-elongatá, rectá. tenniculá, convexá ; lateribus æqualiter rotundatis : concentrice striata, striis ad latera rugæformibus, posticis conspicue corrugato-liratis, interstitiis profundis : sordidè albâ.

THE OUR LUTRARIA. Shell somewhat squarely elongated, straight, rather thin, convex; sides equally rounded, concentrically striated, striæ wrinkle-like at the sides, the posterior sides conspicuously wrinkle-ridged, the interstices being deep; dead white.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Moreton Bay, Australia; Strange.

Of this very characteristic species only a dead odd valve has been collected. It is of a straight, squarely elongated,

Solenicurtus-like form, with the concentric strice peculiarly puckered on the posterior side into deep wrinkle-ridges.

Species 11. (Mus. Cuming.)
LUTRARIA MANUTA. Lutr. testa elongato-ovata, planoconvexă, prope umbones compressă, solidiusculă; lateribus aqualiter rotundatis, concentrice irregulariter striată, striis ad latera rugosis; ferrugineo-alba.

THE VERY LARGE LUTRARIA. Shell elongately ovate. flatly convex, compressed near the umboes, rather solid: sides equally rounded, irregularly concentrically striated, strize rough at the sides; rust-white.

Loves MS. (Mus. Cuming.) / Lee ... Hab. China.

A fine species, of simple character, covered, doubtless, with a dark epidermis, but of which there are scarcely traces in the specimen figured.

Species 12. (Mus. Cuming.)

LUTRARIA AUSTRALIS. Lutr. testa arcuato-oblonga, medio gibbosá, anticè rostratá, latere postico attenuatorotundato, antico obliquè producto, latiore, apertè hiante : eburned, epidermide corned tenuè corrugatà in-

THE SOUTHERN LUTRARIA. Shell arcuately oblong, gibbous in the middle, beaked anteriorly, posterior side attenuately rounded, anterior obliquely produced, broader, openly gaping; ivory-white, covered with a thin finely shrivelled horny epidermis.

DESHAYES, Pro. Zool. Soc. 1854.

Hab. Moluccas.

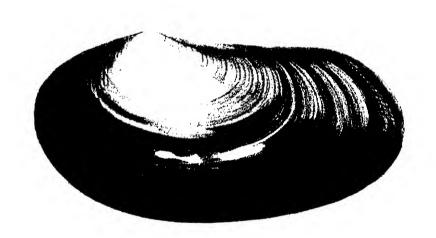
A very characteristic species, peculiarly obliquely arched and gibbous, with the anterior end beaked and openly gaping.











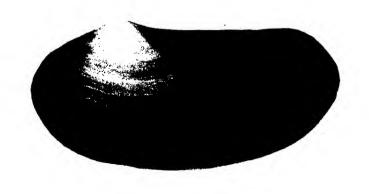


PLATE IV.

Species 13. (Mus. Cuming.)

LUTRARIA CUMINGIANA. Lutr. testá elongato-oblongá, tennicula, angusta, curvata, Soleniformi; lateribus aqualiter rotundatis, antico valde prolongato, subaperte hiante, postico brevi ; concentrice dense minute striata. velluculo-alba, epidermide tenui cinereo-olivacea indutá.

('uming's Lutraria. Shell elongately oblong, rather thin, narrow, curved, Solen-shaped; sides equally rounded, the anterior very much prolonged, rather openly gaping, posterior short; concentrically thickly minutely striated, transparent white, covered with a thin ash-olive epidermis.

DESHAYES, Pro. Zool. Soc. 1854.

Zenatia Cumingiana, Gray.

Hab. New Zealand; Earl.

and was A delicate Solen-shaped species, much produced anteriorly, and openly gaping.

Species 14. (Mus. Cuming.)

LATRARIA ACINACES. Lutr. testá subquadesto-elongatá, valdè compressa, lævigata vel lineis incrementi irregulariler notatà, latere antico valdè prolongato, latiusculo, hiante, ad umbones obsoletè angulato-carinato, ambobus aqualiter rotundatis; incarnata, epidermide corned nigricante-olivaced versus marginem induta.

THE SCYMITAR LUTRARIA. Shell somewhat squarely elongated, very compressed, smooth or marked irregularly with the lines of growth, anterior side very much prolonged, rather broad, gaping, obsoletely angle-keeled from the umboes, both sides equally rounded; flesh-tinged, covered towards the margins with a horny blackish-olive epidermis.

Quoy, MS. (Mus. Cuming.)

Zenatia acinaces, Gray.

Hab. New Zealand : Earl.

A somewhat broad squarely elongated shell, smooth and very compressed, flesh-tinged, covered towards the margin with a very dark olive epidermis, having somewhat the aspect of a Sanguinolaria.

Species 15. (Mus. Cuming.)

LUTRARIA SIEBOLDTII. Intr. testá elongato-ovatá, curvata; lateribus subacute rotundatis; oblique rugose concentrice striata, sordide alla, epidermide lutescenteolivacea induta.

SIEBOLDT'S LUTRARIA. Shell clongately ovate, curved; sides rather acutely rounded; obliquely roughly concentrically stricted white, covered with a vellowish-olive

DESKATES Pro Zook, Soc. 1854.

Hab. Vancouver's Island; Kellett.

A rather solid shell, of curved concentric growth, the lines being somewhat rough and irregular, covered with a yellowish-olive epidermis.

Species 16. (Mus. Cuming.)

LUTRARIA RHYNCHÆNA. Lutr. testá elongato-ovatá, subventricosă, antice rostrato, aperte hiante, concentrice rugoso-striată; albidă, epidermide corneâ lutescenteolivaceá indutá.

THE BEAKED LUTRARIA. Shell elongately ovate, subventricose, beaked anteriorly, openly gaping, concentrically roughly striated; whitish, covered with a yellow-olive horny epidermis.

JONAS, MS. (Mus. Cuming.)

Hab. Swan River.

Peculiarly distinguished by its ventricose growth, and by the beaked openly gaping structure of the anterior end.

Lutraria, Pl. V.



PLATE V.

Species 17. (Mus. Cuming.)

LUTRARIA LANCBOLATA. Lut. testa oblonya, compressoplana, anticè angulatè attennata, levigata nel concentricè tenuissime driata, cardinis cochlegriformi, peculiariter angulatim producto, pontice di
nato, sub costa interna radiunte appresso; carnel, fer
rugineo pellide tincta, epidermide cornea versali marginem indutti.

THE LANCEOLATE LUTBABIA. Shell compressly flattened, anteriorly angularly attracted, spoon-shaped concentrically striated, spoon-shaped concentrically striated, spoon-shaped concentriorly, angularly produced, inchesed posteriorly, appressed upon an internal radiating rib; flesh-tinged, faintly stained with rust, covered towards the margin with a horny epidermis.

Resania lancaplata, Gray, MS. Mus. Beite:

Distinguished by the spoot-shaped shelf of the hinge being angularly pressed in the presence direction upon an internal callous rib, radiating towards the margin. Species 18, (Mus. Cuming.)

LUTRARIA MAXIMA. Lut. Lestá oblique oblongá, ventricosimi, Panopæajaria, antice hiante, latere postico
brevi, rotundato, antico multo longiore, truncato, conmutrice striatá; ulbidá, epidermide olivaceá corneá de-

THE VERY LABOR LUTBARIA. Shell obliquely oblong, very ventricose, Panopæa-shaped, gaping in front, posterior side short, rounded, anterior much the longer, truncated, concentrically striated; whitish, covered with an olive, horny, deciduous epidermis.

MIDDENDORF, Malacozoologia Rossica, vol. ii. p. 66, pl. 19, f. 1-4.

Hab. St. Juan de Puce, Upper California.

This fine species is well distinguished from the rest of genus by its ventricose Panopæa-like form. The specimen here figured from Mr. Cuming's collection is of a mare elongated form than the typical specimen represented by the Russian conchologist, but equally ventricose and truncated. In the British Museum are specimens in both states of the species.

May, 1855.

MONOGRAPH

OB MITTE CHANTE

AMPHIDESMA

"Whom Nature's works can charm, with God himself
Hold converse; grow familiar day by day
With His conceptions, set upon His plan,
And form to His the reliah of their wouls "—Abenside



Amphidesma P1





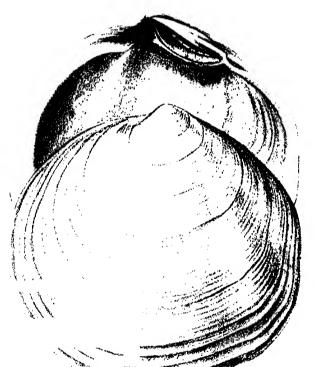








PLATE I.

Genus AMPHIDESMA, Lamarck.

Testa æquivalvis, inæquilateralis, oblongo-ovalis vel rotundata, latere postico plerumque breviore, et plus minus flexuoso. Cardo dente unico aut duobus in utraque valva, foveola angusta elongata interjacente. Ligamentum duplex, partim tenue, externum, partim crassum, in foveola, internum. Impressio muscularis pallii sinu magno.

Shell equivalve, inequilateral, oblong-oval or rounded, posterior side generally shorter, and more or less flexuous. Hinge composed of one or two teeth in each valve, with a narrow elongated pit lying between them. Ligament duplex, part thin, external, part thick, internal, in the pit. Muscular impression of the mantle with a large sinus.

The shells of this genus are chiefly distinguished by a peculiarity in the structure of the hinge, which encloses a strong cartilage internally, within an obliquely clongated pit on the posterior side. The genus as defined by Lamarck contained rather a miscellaneous assemblage of species. Some of these have been transferred to Thracia. some to Mesodesma, and some to Syndosmya; and several referred to this genus by Fleming and others have shared a similar fate. Of the Lamarckian species. A. variegatum (Tellina obliqua, Wood) may be regarded the type of the genus as now constituted. Mr. Cuming contributed several important new species of this form, from his researches in South America, figured by Mr. Sowerby in his 'Conchological Illustrations,' and the species since collected have enabled me to increase their number in the present monograph to upwards of fifty.

The shells are of an oblong-circular or oval form, with the posterior or cartilage side mostly the shorter, more or less truncated and flexuous. The sculpture consists chiefly of irregular concentric ridges, often in densely packed lamelle neatly frilled, with the interstices minutely cancellated. The species have all a light and delicate aspect, though in several instances rather solid; some are white, some are painted with rose and pale yellow. There are no British species. The chief localities are Australia, the Philippine Islands, and the western coast of South and Central America.

1. (Mus. Cuming.)

AMPHIDESMA EXABATA. Amph. testa oblongo-outer, and

oblique curvata, pellucente, alba, maculis perpaucis roseis pallide adspersa, concentrice costata, costis tenuibus, subrecurvis, cum interstitiis excavatis, lineis rugaformibus radiatis.

THE PLOUGHED AMPHIDESMA. Shell oblong ovate, rather obliquely curved, pellucid, white, faintly sprinkled with a very few rose spots, concentrically ribbed, ribs thin, a little recurved, rayed, together with the deep interstices, with wrinkle-like lines.

Adams and Reeve, Moll. Voy. Samarang, p. 81. pl. 24. f. 9.

Hab. Sooloo Sea.

A subtransparent species, rayed with erect delicately recurved ribs, which, together with the deeply grooved interstices, are rayed with wrinkle-like lines.

Species 2. (Mus. Cuming.)

AMPHIDESMA PULCHRA. Amph. testá ovali, pallidá, superficie concentricè striatá; intus albidá, purpureo
variá; latere postico breviore, margine anticá inclinatá, striis nonnullis radiantibus, strias incrementi decussantibus.

THE BEAUTIFUL AMPHIDESMA. Shell oval, pale, surface concentrically striated; whitish within, variegated with purple; posterior side shorter, anterior margin inclined, rayed with a few strice crossing the strice of growth.

SOWERBY, Pro. Zool. Soc. 1832, part 2. p. 57. Hab. Bay of Caraccas. South America.

Resembling A. obliqua, but of mores olid Donax-like growth.

Species 3. (Mus. Cuming.)

AMPHIDESMA LISTA. Amph. testá oblongá, transversá, ventricosá, nitidiusculá, sordide carned, roseo obscure radiatá, latere antico multo longiore, rotundato, postico subtruncato, ad marginem ventralem flexuoso; concentrice sulcatá; intus purpurascente, also limbatá.

THE GRACEFUL AMPHIDESMA. Shell oblong, transverse, ventricose, rather shining, dull flesh-colour, obscurely rayed with rose, anterior side much the longer, posterior slightly truncated, flexuous at the ventral margin; concentrically grooved; purple within, edged with white.

Semele venusta, A. Adams, Pro. Zool. Society, July, 1853. Hab. West Columbia.

An oblong, faintly rayed, Tellina-like species, concentrically somewhat flexuously grooved throughout.

Species 4. (Mus. Cuming.)

AMPHIDESMA CORRUGATA. Amph. testá suborbiculari, crassá, albicante, radialim striatá, concentricè rugulosá; epidermide fuscá; margine dorsali posticá rectá, inclinatá; intus flavescente-aurantiá.

THE WRINKLED AMPHIDESMA. Shell nearly orbicular, thick, whitish, radiately striated, concentrically finely wrinkled; epidermis brown; posterior dorsal margin straight, inclined; yellowish-orange within.

SOWERBY, Pro. Zool. Soc. 1832, part 2, p. 200.

Hab. Peru and Iquiqui, South America (dredged from coarse gravel, in ten fathoms water); Cuming.

A fine large solid subdistorted shell, of an unspotted stone-white hue externally, brilliantly coloured within with yellowish-orange.

Species 5. (Fig. a, b, Mus. Cuming.)

Amphidesma obliqua. Amph. testá oblongo-orbiculatá, convexo-depressá, tenui; albido-purpurascente, maculis lituraformibus spadiceis plus minus variegatá, parte anticá et medianá liris tenuibus concentrice oblique sculptá.

THE VARIEDATED AMPHIDESMA. Shell oblong-orbicular,

convexly depressed, thin; white-purplish, more or less variegated with fawn blotches, anterior and middle portion of the valves sculptured with fine obliquely concentric ridges.

Tellina obliqua, Wood General Conch. p. 152, pl. 41, f. 4 and 5.

Amphidesma variegatum, Lamarck.

Hab. Brazils (in sandy mud at eight fathoms); Miller.

There is an important character in this species unnoticed by Lamarck. The anterior and middle portion of each valve is sculptured with fine concentric ridges, not ranging parallel with the lines of growth, but a little obliquely across them, well marked in Wood's figure.

Species 6. (Mus. Cuming.)

AMPHIDESMA CARNICOLOR. Amph. testa orbiculari, latere postico subflexuoso, crassiuscula, pellucido-qlba, intus marginem versus aurantia, concentrice lirata, liris rudibus, tenuibus, interstitiis rugis dense radiatis.

THE FLESH-COLOURED AMPHIDESMA. Shell orbicular, posterior side a little flexuous, rather thick, transparent white, orange towards the margin in the interior, concentrically ridged, ridges rude, fine, with the interstices densely rayed with wrinkles.

HANLEY, Recent Shells, Supp. pl. 12. f. 28.

Hab. Gundulman, island of Bohol, Philippines; Cuming.

A subflexuous rounder species, sculptured with fine, short, irregular ridges, the interstices between which are closely wrinkle-rayed.



Imphidesma.Pt.II.

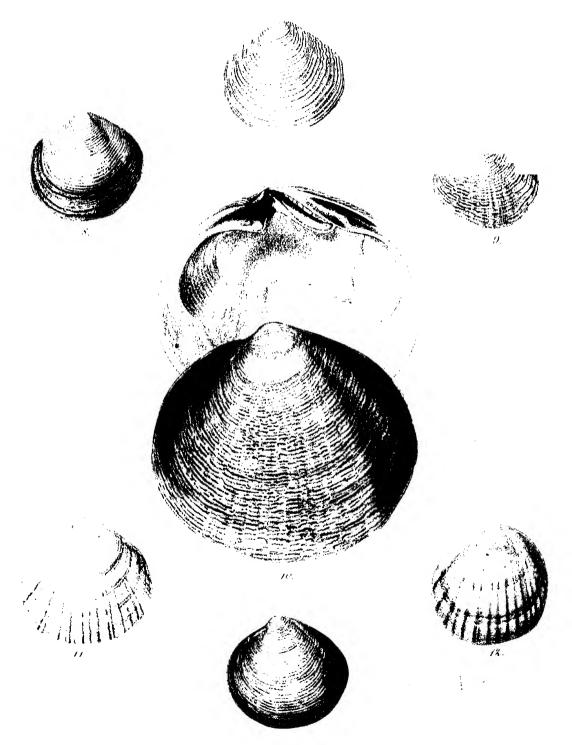


PLATE II.

Species 7. (Mus. Cuming.)

AMPHIDESMA JUKESII. Amph. testá orbiculari, compressinsculá, albidá, concentrice lamellosá, lamellis subincrassatis, eleganter minuté crenulato-fimbriatis, ad latera productis, interstitiis tenuissime corrugato-liratis, latere antico rotundato, postico angulato, ad marginem ventralem flexuoso; areá excavatá utrinque cardinem oblongá, subprofundá; intus luteá.

JUNES'S AMPHIDESMA. Shell orbicular, rather compressed, whitish, concentrically lamellose, lamellæ rather thickened, elegantly minutely crenulately fimbriated, produced at the sides, interstices very finely wrinkle-edged, anterior side rounded, posterior angled, flexuous at the ventral margin; excavated area on each side of the hinge oblong and rather deep; yellowish within.

Semele Jukesii, A. Adams, Pro. Zool. Soc. July, 1853. Hab. Torres Straits, Australia; Jukes.

Most exquisitely wrinkled-ridged and crenulated beneath the lens.

Species 8. (Mus. Cuming.)

AMPHIDESMA CRENULATA. Amph. testá suborbiculari, convexá, subrude incrassatá, subæquilaterali, latere postico flexuoso; sordide albá, undique concentrice denne minute fimbriato-lamellatá, interstitiis liris radiantibus exilissime cancellatis.

THE CRENULATED AMPHIDESMA. Shell somewhat orbicular, convex, somewhat rudely thickened, nearly equilateral, posterior side flexuous; dull white, concentrically densely minutely fimbriately lamellated throughout, interstices very finely cancellated with radiating ridges.

Sowerby, Species Conch. (inedit.) Amphidesma, f. 13. Hab. Indian Ocean.

A rudely thickened convex shell, very beautifully minutely frilled and cancellated throughout, like honey-comb.

Species 9. (Mus. Cuming.)

AMPHIDESMA RUPIUM. Amph. testa enbovali vel emborbiculari, subirregulari, radiatim etriata, lirie inta lis concentrice rugosa; umbone levigato; intus dentibus lateralibus eubapproximatis, bretibus, margineque dorsali poetica purpureis. THE ROCK AMPHIDESMA. Shell suboval or suborbicular, rather irregular, radiately striated, concentrically wrinkled with interrupted ridges; umbo smooth; white within; lateral teeth rather approximated, short, thick, and, with the posterior dorsal margin, purple.

Sowerby, Pro. Zool. Soc. 1832, part 2. p. 199.

Hab. Lord Hood's and Galapagos Islands, Pacific Ocean (in the crevices of rocks and coral reefs); Cuming.

A Petricola-like species, of irregular growth, varying, doubtless, more or less, according to the nature of its habitat.

Species 10. (Mus. Cuming.)

Amphidesma solida. Amph. testa ovato-orbiculari, crassa, spadiceo-alba, intus versus cardinem purpurascente, liris undatis rugaformibus undique concentricè sculpta.

THE SOLID AMPHIDESMA. Shell ovately orbicular, thick, fawn-white, purple in the interior towards the hinge, concentrically sculptured throughout with waved wrinkle-like ridges.

GRAY, Spicilegium Zoologicum, part 1. p. 6. pl. 6. f. 6. Hab. Valparaiso; Cuming.

A fine species of solid growth, sculptured externally with concentric wavy wrinkle-like ridges.

Species 11. (Mus. Cuming.)

AMPHIDESMA SUBTRUNCATA. Amph. testă subquadratoorbiculari, tenuiculă, subæquilaterali, latere postico truncato, flexuoso; lutescente-albă, nitente, lineis roseis subinterruptis promiscue radiată, plicis tenuibus obtusis flexuosis concentrice sculptă.

THE SUB-TRUNCATED AMPHIDESMA. Shell somewhat squarely orbicular, rather thin, nearly equilateral, posterior side truncated, flexuous; yellowish-white, shining, promiscuously rayed with rose lines, and sculptured concentrically with thin obtuse flexuous folds.

Sowers, Species Conch. (inedit.) Amphidesma, f. 19 and 20.

Hab. Island of Nevis, West Indies (in sandy mud at the depth of six fathoms); Captain Powers.

A delicately rose-rayed Tellina-like species.

Species 12. (Mus. Cuming.)

AMPHIDESMA BADIATA. Amph. testá subquadrato-orbiculari, posticè obliquè flexuosá, crassá, striis subtilibus densè radiatá, plicis tenuibus planulatis irregularibus concentricè sculptá; lutescente-albá, aurantio-carneo pallidè tinctá et radiatá.

THE RAYED AMPHIDESMA. Shell subquadrately orbicular, posteriorly obliquely flexuous, thick, densely rayed with fine striæ, concentrically sculptured with thin flattened folds; yellowish-white, faintly tinged and rayed with orange-flesh.

RUPPELL, MSS. in Mus. Frankfort.

Hab. Red Sea (in coral sand); Ruppell.

A thick obliquely flexuous orbicular shell, tinged and rayed with orange-flesh, the surface being rayed with minute strime across thin flattened folds, which are covered in part with a peculiar deciduous epidermis.

Species 18. (Mus. Cuming.)

AMPHIDESMA ORBICULATA. Amph. testá orbiculari, postioè flexuosá, latere antico paululum breviore, unionibus subprominulis; sordide albá, prope marginem fueco tinctá, radiatim dense flexuoso-striatá, concentrice lineus tenuibus elevatis flexuosis anticitativa ovuepta.

THE ORBICULAR AMPHIDESMA. Shell orbicular, posteriorly flexuous, anterior side a little the shorter, unboes rather prominent; dull white, tinged with brown near the margin, radiately densely flexuously strated, concentrically sculptured with rather interrupted thin flexuous raised lines.

SAY, Journ. Acad. Nat. Sci. Phil. vol. 2. p. 307. Hab. United States.

A rounded Venus-like species of denser cancellated sculpture than the preceding.



Imphidesma, Pl. III.

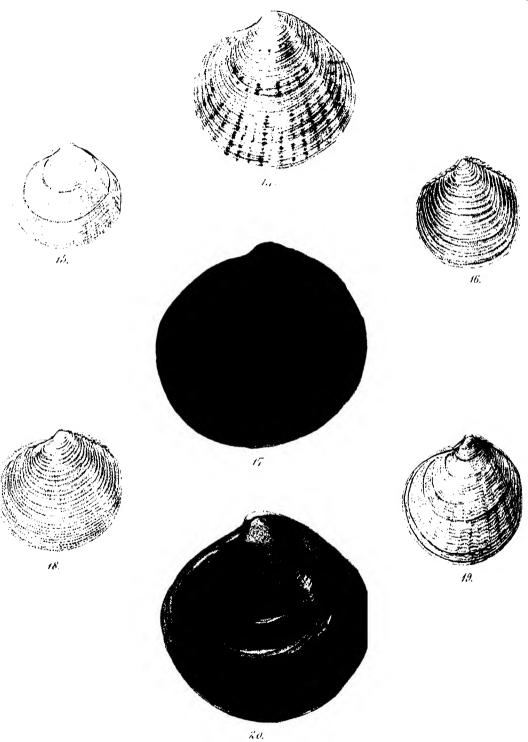


PLATE III.

Species 14. (Mus. Cuming.)

AMPHIDESMA DUPLICATA. Amph. testá ovali-orbiculari, compressá, subequilaterali, postice flexuosá; lutescenteulbá, luteo roscoque promiscue punctatá et pallide radiatá, concentrice subirregulariter dense duplicato-liratá, liris interstitiisque striis radiantibus minute scabrosis crenulatis.

Ine DOUBLE-RIDGED AMPHIDESMA. Shell oval-orbicular, compressed, nearly equilateral, posteriorly flexuous; yellowish-white, promiscuously dotted and faintly rayed with yellow and rose, concentrically somewhat irregularly densely double-ridged, ridges and interstices crenulated with minute scabrous radiating strict.

Sowerby, Species Conch. (inedit.) Amphidesma, f. 14 and 15.

Hab. Antigua.

An exquisitely sculptured species in which the concentric ridges are arranged in pairs, delicately and beautifully painted.

Species 15. (Mus. Cuming.)

AMPRIDESMA DECORA. Amph. testá orbiculari, subæquilaterali, compressiusculá, liris concentricis et radiantibus undique eximiè reticulatá, latere antico sublongiore, rolundato, postico subtruncato, valdè flexuoso; intus albá.

THE GRACEFUL AMPHIDESMA. Shell orbicular, nearly equilateral, rather compressed, delicately reticulated throughout with concentric and radiating ridges, anterior side rather the longer, rounder, posterior slightly truncated, very flexuous; white within.

Semele decora, A. Adams, Pro. Zool. Soc. July, 1853.

Closely reticulated over by small delicate concentric and radiating ridges.

Species 16. (Mus. Cuming.)

AMPHIDESMA LAMELLOSA. Amph. testá subquadratoovatá, subplano-compressá, lateribus subangulatis, postico flexuoso; marmoreo-albá, concentrice lamellato-tiratá, liris elevatis, recurvis, externé crispato-crenulatis,
ad latera productis et confertis.

THE LAMELLOSE AMPHIDESMA. Shell somewhat squarely ovate, rather fiatly compressed, sides somewhat angled,

posterior flexuous; marble-white, concentrically lamellarly ridged, ridges raised, recurved, outwardly crisply crenulated, produced and crowded at the sides.

SOWERRY, Species Couch. Part 2 (inedit.) Amphidesmu f. 9 and 19.

Hob. Australia, Java.

The lamellar ridges which characterize this species are curled over towards the umboes, showing the outer surface to be crisply crenulated.

Species 17. (Mus. Cuming.)

AMPHIDESMA ROSEA. Amph. lestá suborbiculari, roseá, concentricè costatá, epidermide fuscá lucidá indutá; latere postico subemarginalo; costis confertis, acutis.

THE ROSE AMPHIDESMA. Shell nearly orbicular, rose, concentrically ribbed, covered with a brown lucid epidermis; posterior slightly emarginated; ribs close-set, sharp.

Sowerby, Pro. Zool. Soc. 1832, part 2. p. 199.

Hab. Tumbez, Peru; Cuming.

A fine characteristic species, described originally by Mr. Sowerby from a single valve, obtained by Mr. Cuming in the above-named locality.

Species 18. (Mus. Cuming.)

AMPHIDESMA CASTA. Amph. testá oblongo-ovali, compressiusculá, inæquilaterali, latere antico longiore, rotundato, postico subangulato-rotundato, flexuoso; albá, umbonibus interdum flavescentibus; radiatim striatá, concentricè densè lamellosá, lamellis tenuibus, pulcherrimè fimbriatis; ad latera prominentioribus.

THE CHASTE AMPHIDESMA. Shell oblong-oval, rather compressed, inequilateral, anterior side the longer, rounded, posterior rather angularly rounded, flexuous; white, umboes sometimes yellowish; radiately striated, concentrically densely lamellated, lamellæ thin, very beautifully frilled, more prominent at the sides.

Semele casta, A. Adams, Pro. Zool. Soc. July, 1853.

Hab. Moreton Bay, Australia; Strange.

Most elegantly and beautifully sculptured, the whole of the fine lamellæ being delicately frilled at the edge.

AMPHIDESMA .- PLATE III.

Species 19. (Mus. Cuming.)

AMPHIDESMA CALIFORNICA. Amph. testd oblongo-ovali, inæquilaterali, fuscescente-alba, sordidè fusco pallidè radiata, concentricè sulcata, liris intermediis oblusè elevatis subcorrugatis, sulcis creberrimè radiatim striatis; latere antico oblongo-rotundato, postico subtruncato, valdè flexuoso; intus albida aut lutescente.

THE CALIFORNIAN AMPHIDESMA. Shell oblong-oval, inequilatoral, brownish-white, faintly rayed with dull brown, concentrically grooved, the intermediate ridges being obtusely raised and somewhat wrinkled, grooves very closely radiately striated; anterior side oblong-rounded, posterior slightly truncated, very flexuous; whitish or yellowish within.

Semele Californica, A. Adams, Zool. Pro. Soc. July, 1853. Hab. Gulf of California. An obtusely wrinkle-ridged species, densely rayed from the umboes with minute strise.

Species 20. (Mus. Cuming.)

AMPHIDESMA PROXIMA. Amph. testá suborbiculari, postice paululum flexuosá et subtruncatá; albá, epidermide tenui sordidá plus minus deciduá, concentrice irregulariter flexuoso-liratá, striis minutis numerosis radiantibus.

THE ALLIED AMPHIDESMA. Shell nearly orbicular, a little flexuous and slightly truncated on the posterior side; white, with a thin more or less deciduous dirty epidermis, concentrically irregularly flexuously ridgel, with numerous minute radiating strise.

C. B. Adams, Cat. Shells of Panama, p. 292. Hab. Panama.

A fine large species with somewhat of a Lucina-aspect.

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Imphidesma 11.11;

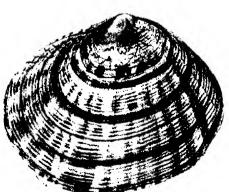














Prame IV

Species 21. (Mus. Cuming.)

AMPHIDESMA GRUNERI. Amph. testa suboblique ovata, crassa, convexiuscula, albida, roseo promiscue maculata et radiata, latere antico vix longiore, postico rolundato, subflexuoso; concentrice plicata, plicis dense tenuilamellosis, lamellis quasi abrasis, interstitiis liris parvis concinne radiatis.

GEUNER'S AMPHIDESMA. Shell somewhat oblique, ovate, thick, rather convex, whitish, promiscuously blotched and rayed with rose, anterior side scarcely the longer, posterior rounded, subflexuous; concentrically plicated, plaits densely finely lamellated, the lamellæ as though abraded, interstices finely rayed with small ridges.

Semele Gruneri, A. Adams, Pro. Zool. Soc. July, 1858.

A beautiful rose-painted species, plaited concentrically with ribs of closely packed lamellæ, the interactices between the ribs being rayed with fine ridges

Species 22. (Mus. Cuming.)

AMPHIDESMA PALLIDA. Amph. testá ovali, pallide pur purascente-fulvá, umbonibus saturatioribus, tenuissim concentrice striatá, epidermide tenui subiridescente in dutá; latere postico subtruncato, flexuoso, antico ro tundato.

THE FALE AMPHIDESMA. Shell oval, pale purple-fulvous umboes darker, very finely concentrically striated, co vered with a thin subiridescent epidermis; posterio side subtruncated, flexuous, anterior rounded.

SOWERBY, Pro. Zool. Soc. 1832, p. 199.

Hab. Salango, West Columbia (dredged in sandy mud a a depth of seven fathoms); Cuming.

Extremely finely sculptured throughout with close-se concentric raised atrice

Species 23. (Mus. Cuming.)

AMPHIDESMA DEGUSSATA. Amph. tests subtrigono-ordiculari, tenuiculd, latere postico subangulato et ficunoso, albida, prope umbones purpuramente tincid, intus purpureo vivide undato-punctats; radiatim minuts striats lineis tenuibus elevatis concentricis versus marginem.

The Decussated Amphidesma. Shell somewhat tai

angularly orbicular, rather thin, posterior side slightly angled and flexuous; whitish, tinged with purple towards the umboes, brightly wave-dotted with purple in the interior; radiately minutely striated, with thin raised concentric lines towards the margin.

Tellini decussata, Wood General Conch. p. 190. pl. 43. f. 2 and 3.

Amphidesma Jayanum, C. B. Adams.

Hab. West Indies; C. B. Adams.

A delicately formed species, tinged externally with purple towards the umboes, from a sprinkling of rose-purple wave-dots in the interior showing through.

Species 24. (Mus. Cuming.)

AMPHIDESMA DECISA. Amph. testa subtrigono-ordiculari, compressa, latere postico subangulato et conspicus flexuoso, concentrios poculiariter rude plicata, plicis tumidis, irregularibus, undique crispato-punctatis, quasi corrugatis, rosco-albida, plicarum interstitiis hic illic roscis.

THE DEVIDED ATTHIDESMA. Shell somewhat triangularly orbicular, compressed, posterior side rather angled and conspicuously flexuous, concentrically peculiarly rudely plicated, plaits swellen, irregular, and crisply dotted, as though wrinkled, throughout; pinkish-white, interstices between the folds here and there pink.

CONRAD, Journ. Acad. Nat. Sci. Philadelphia, vol. vii. pl. 19, f. 2.

Hab. San Diego, California.

- This fine and very characteristic species is most curiously wrinkle-punctured throughout.

Species 25. (Mus. Cuming.)

AMPHIDESMA ZEBUENSIS. Amph. testa oblongo-ovali, in aquilaterali, compressivecula, latere antico sublongiore rotundato, postico subtruncato, paulutum flexuoso; al bida, carneolo promiscuè pallide radiata; concentrici lamellato-costata, costis subaqualibus, ad latera productis, interstitiis minutissimè striato-radiata, linei elevata concentrica.

THE ZERU AMPHIDESMA. Shell oblong-oval, inequilateral, rather compressed, anterior side somewhat the longer, rounded, posterior subtruncated, a little flexuous; whitish, promiscuously raised with faint flesh-

AMPHIDESMA. PLATE IV.

tint; concentrically lamella-ribbed, ribs nearly equal, produced at the sides, interstices very minutely striarayed, with a concentric raised line.

HANLEY, Recent Shells, Supp. pl. 12. f. 7.

Semele gratiosa, A. Adams.

Hab. Moluccas.

Of an obliquely oblong-oval form, densely ribbed with recurved lamellæ.

Species 26. (Mus. Cuming.)

AMPHIDESMA PUNCTATA. Amph. testá ovali, crassiusculá, albicante, sparsim roseo fulvoque maculatá; posticè subtruncatá, plicá flexuosá posticali distinctá; disco externo concentricè impresso-punctato, marginibus, inferiori costis nonnullis concentricis latis, dorsalibus utrinque roseo maculatis.

THE DOTTED AMPHIDESMA. Shell oval, rather thick, whitish, sparingly dotted with rose and fulvous; posteriorly somewhat truncated, with a distinct posterior flexuous fold; outer disk concentrically impressly dotted, dorsal margins, the lower of which has some

broad concentric ridges, spotted at both ends with rose.

SOWERBY, Pro. Zool. Soc. 1832, p. 200.

Hab. Gallapagos Islands.

A very characteristic, rudely sculptured species, of oblong-oval compressed form, sparingly dotted with rose.

Species 27. (Mus. Cuming.)

AMPHIDESMA FORMOSA. Amph. testá ovali, albicante, roseo radiatá et purpureo maculatá, concentrice costatá, costis confertis, antice posticeque rugulosis; umbonibus intus lutescentibus.

THE BEAUTIFUL AMPHIDESMA. Shell oval, whitish, rayed with rose, and blotched with purple, concentrically ribbed, ribs close-set, anteriorly and posteriorly rugulose; umboes yellowish interiorly.

SOWERBY, Pro. Zool. Soc. 1832, p. 199.

Hab. St. Elena, West Columbia (dredged in seven fathons water); Cuming.

A fine, large, richly coloured species, of Tellina-like aspect.

Amphidesma 113

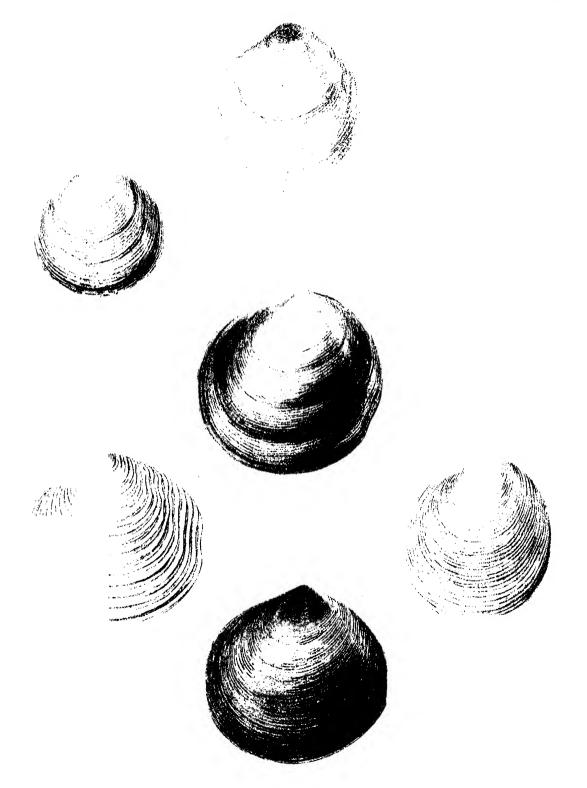


PLATE V.

Species 28. (Mus. Cuming.)

AMPHIDESMA SINENSIS. Amph. testá suboblongo-orbiculari, aquilaterali, compressiusculá, albidá, epidermide subfuscá partim indutá, liris numerosis tenuibus undique dense cancellatá; latere antico rotundato, postico (runcato, subflexuoso; umbonibus rosaceis, lævibus.

THE CHINESE AMPHIDESMA. Shell rather oblong-orbicular, equilateral, rather compressed, whitish, partially covered with a light brownish epidermis, densely cancellated throughout with numerous fine ridges; anterior side rounded, posterior truncated, rather flexuous; umboes pink, smooth.

Semele Sinensis, A. Adams, Pro. Zool. Soc. July, 1853.

The concentric ridges have a thread-like appearance, while those which radiate from the vicinity of the umboes are obtuse and somewhat irregular.

Species 29. (Mus. Cuming.)

NOPHIDESMA RETICULATA. Amph. lestá orbiculari, æquilaterali, compressiusculd, lutescente-albá, liris tenuibus filiformibus concentrice sculptá, interstitiis sub lente minute radiatim striatis; latere antico rotundato, poslico truncato, subflexuoso; intus lutescente.

THE RETICULATED AMPHIDESMA. Shell orbicular, equilateral, rather compressed, yellowish-white, sculptured with fine thread-like concentric ridges, the interstices between which are, beneath the lens, finely radiately striated; anterior side rounded, posterior truncated and slightly flexuous; interior yellow.

Sowerby, Species Conch. (inedit.) Amphideema, f. 11 and 12.

Hab. Brazils and West Indies (in sandy mud).

Sculptured with concentric thread-like ridges, comparatively rather distant, with the interstices very minutely radiately strinted.

Species 30. (Mus. Cuming.)

MPHIDESMA CORDIFORMIS. Ampl. testá orbiculari, crassiusculá, æquilaterali, compresso-convexá, albidá, liris tenuibus undique den inimulè decuesatá, lateribus subtrigonis, postico truncato, leviter flexnoso; umbonibus rosuceis, levibus, areis utrinque umbones lineis rosuceis subdistantibus ornatis.

THE HEART-SHAPED AMPHIDESMA. Shell orbicular, rather thick, equilateral, compressly convex, whitish, densely minutely decussated throughout with fine ridges, sides somewhat triangular, posterior side truncated, slightly flexuous; umboes rose, smooth, areas on each side the umboes ornamented with rather distant rose lines.

SOWERBY, Species Conch. (inedit.) Amphidesma, f. 7. Hab. Indian Ocean; Humphreys.

An extremely rare species, closely allied to A. Sinensis, but of a more orbicular form, rather thicker, and more finely sculptured.

Species 31. (Mus. Cuming.)

Amphidesma elliptica. Amph. lestá elliptica-avald, albá, subobliquá, lævi, epidermide sordidá: latere autico longiore, rotundato, postico obliquè subtruncato, superficie concentricè lirato-striatá, striis subtilissimis impressis radiatá.

THE ELLIPTIC AMPHIDESMA. Shell elliptic-oval, white, rather oblique, smooth, with a dirty epidermis; anterior side the longer, rounded, posterior obliquely subtruncated, surface concentrically ridge-striated, radiately marked with very fine impressed strice.

Sowerby, Pro. Zool. Soc. 1832, p. 200.

Hab. Monte Christe, West Columbia (in sandy mud at nine fathoms); Quming.

A fine species, of a peculiar elliptic-oval form, simply stria-sculptured.

Species 32. (Mus. Cuming.)

AMPHIDESMA AMABILIS. Amph. testá oblonyo-ovatá, compressá, albidá, concentrice lamellosá, lamellis elevatis, plicatis, margine crenulatis, ad latera productis, interstitiis striolatis, lirá filiformi concentricá sculptis; latere antico vix longiure, postico flexuoso.

THE LOVELY AMPHIDESMA. Shell oblong-ovate, compressed, whitish, concentrically lamellose, lamellae raised, plicated, crenulated along the edge, produced at the sides, interstices finely striated, and sculptured with a concentric filiform ridge; anterior side rather the longer, posterior flexuous.

Semele amabilie, A. Adams, Pro. Zool. Soc. July, 1853.

'Hab. Port Curtis, Australia.

Elegantly sculptured throughout with thin raised lamellæ.

Species 33. (Mus. Cuming.)

AMPHIDESMA SCABRA. Amph. lestá orticulari, convexá, subæquilaterali, latere antico rotundato, postico subtruncato, leviter flexuoso; lutescente-albá, lineis pallide rufo-aurantiis obscure radiatá, cardine purpureotincto; superficie dense tenuilamellatá, lamellis margine crenulatis, interstitiis concentrice striatis, radiatim crispato-corrugatis.

The ROUGH AMPHIDESMA. Shell orbicular, convex, nearly equilateral, anterior side rounded, posterior subtruncated and slightly flexuous; yellowish-white, obscurely rayed with faint reddish-orange lines, hinge purple-stained; surface densely finely lamellated, lamellae crenulated at the edge, interstices concentrically striated, radiately crisply wrinkled.

HANLEY, Recent Shells, Supp. pl. 12.

Hab. ---- ?

A delicately sculptured species of yellowish-white, faintly characterized by a few radiating reddish-orange lines.

Species 34. (Mus. Cuming.)

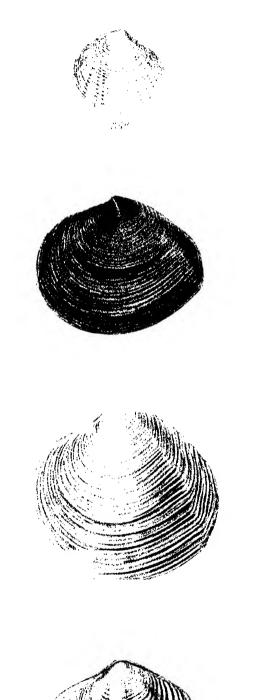
AMPHIDESMA JOVIS. Amph. testá subelliptico-ovali, ventricosiusculá, latere antico sublongiore, postico truncalo, paululum flexuoso; roseo-spadiced, umbonibus roseis; concentricè lamellatá, lamellis parvis, tennibus, confertis.

JUPITER'S AMPHIDESMA. Shell somewhat elliptically oval, rather ventricose, anterior side rather the longer, posterior truncated, a little flexuous; rose-fawn, umboes rose; concentrically lamellated, lamellæ small, thin, close-set.

Semele Jovis, A. Adams, Pro. Zool. Soc. July, 1853. Hab. ——?

A fine large rose-tinted species, sculptured with closeset small lamellæ of a light fawn colour.

Imphidesma, pry





AMPHIDESMA.

PLATE VI.

Species 35. (Mus. Cuming.)

AMPHIDESMA MODESTA. Amph. testa subtrigono-orbiculari, compresso-convexá, aquilaterali, concentrice dense plicata, plicis crussiusculis, irregularibus, hic illic flexnosis, interstitiis radiatim minutissime elevato-striatis : albida, lineis interruptis roseis obscurè radiata.

THE MODEST AMPHIDESMA. Shell somewhat triangularly orbicular, compressly convex, equilateral, concentrically densely plicated, plaits rather thick, irregular, here and there flexuous, interstices radiately very minutely elevately striated; whitish, obscurely rayed with interrupted rose lines.

Semele modesta, A. Adams, Pro. Zool. Soc. July, 1853. Hab. Cape Palmas, West Africa; Redfield.

A bluntly plaited species of a peculiar Astarte-like form.

Species 36. (Mus. Cuming.)

Amphidesma icterica. This species is figured in the genus Lucina at Pl. X. fig. 60, with a remark that it partakes materially of the characters of Amphidesma.

Species 37. (Mus. Cuming.)

AMPHIDESMA PURPURASCENS. Amph. testá ovali, latere anlico rotundato, postico angulato, leviter flexuoso; concentrice dense acute lirata; fulvescente, umbonibus purpurascentibus, albiradiatis, intus purpurascente.

THE PURPLE AMPHIDESMA. Shell oval, anterior side rounded, posterior angled, slightly flexuous; concentrically densely sharply ridged; light fulvous, umboes purple, white-rayed, purple in the interior.

SOWERBY, Pro. Zool. Soc. 1832, p. 199. Hab. St. Elena, West Columbia; Cuming.

The odd valve of this elegant species, here figured, was picked up by Mr. Cuming on the sands at the abovenamed locality.

Species 38. (Mus. Cuming.)

Amphidesma vestalis. Amph. testa orbiculari, latere postico contorto-flexuoso; alba, undique concentrice dense mbliliter striato-lamellata, lamellis ad marginem crenulatis, interstitiis nitide radiatim cancellatis.

THE VESTAL AMPHIDESMA. Shell orbicular, posterior side twistedly reflected; white, concentrically densely finely striately lamellated, lamella crenulated along the edge, interstices neatly radiately cancellated.

Semele vestalis, A. Adams, Pro. Zool, Soc. July, 1853. Hab. China Scas.

The lamellated and cancellated sculpture of this species is the same as that which is so characteristic of the genus, on an unusually small pattern.

Species 39. (Mus. Cuming.)

Amph. testá orbiculari, AMPHIDESMA LENTICULARIS. tenui, subvent ricosá, latere postico leviter flexuoso; albá, striis filiformibus sulflexnosis concentrice sculpta, striis impressis minutissimis radiantibus decussatá.

THE LENS-SHAPED AMPHIDESMA. Shell orbicular, thin, . subventricose, posterior side slightly flexuous; white, sculptured concentrically with thread-like subflexuous strize, decussated with very minute impressed strize.

SOWERBY, Pro. Zool. Soc. 1832, p. 200.

Hab. St. Elena, West Columbia (in sandy mud at six fathoms); Cuming.

A thin subventricose shell, with the sculpture rather faintly developed.

Species 40. (Mus. Cuming.)

AMPHIDESMA SPONSA. Amph. testá orbiculari, ventricosiuscula, solida, aquilaterali, latere antico rolundato, postico subangulato, flexuoso; alba, concentrice dense lamellatú, lamellis tenuibus, acutis, margine subtilissimè crenulatis, ad latera productis, interstitiis hic illic concentricè tenuiliralis.

THE BRIDE AMPHIDESMA. Shell orbicular, rather ventricose, solid, equilateral, anterior side rounded, posterior subangled, flexuous; white, concentrically densely lamellated, lamellæ thin, sharp, very finely crenulated along the edge, produced at the sides, interstices here and there concentrically finely ridged.

Semele sponsa, A. Adams, Pro. Zool. Soc. July, 1853.

Hab. Island of Zebu, Philippines; Cuming.

A fine solid ventricose shell of a pure white, elegantly mellated throughout.

Species 41. (Mus. Cuming.)

Amphidesma Australis. Amph. testă orbiculari, convexă, latere postico flexuoso; albă, plus minus roseo promiscue maculată et radiată, concentrice crassiplicată, plicis subflexuosis et lineari-sulcatis.

THE SOUTHERN AMPHIDESMA. Shell orbicular, convex, posterior side flexuous; white, more or less promiscuously spotted and rayed with rose, concentrically thickly plicated, plaits subflexuous and linearly grooved.

SOWERBY, Pro. Zool. Soc. 1832, p. 200.

Hab. New Holland; Sowerby. Lord Hood's Island, Pacific Ocean (in the crevices of coral rocks); Cuming.

Partaking of the character of A. Gruneri, but of a more rounded and convex form.

Species 42. (Mus. Cuming.)

AMPHIDESMA LUTEOLA. Amph. lesta orbiculari, ventricosa, subequilaterali, latere postico leviter flexuoso; lutescente-alba, circa umbones lævi, deinde liris subtilibus concentrice sculpta, interstitiis radiatim elevato-lineatis; intus lutea.

THE YELLOWISH AMPHIDESMA. Shell orbicular, ventricose, nearly equilateral, posterior side slightly flexuous; yellowish-white, smooth around the umboes, then concentrically sculptured with very fine ridges interstices radiately elevately lineated; interior yellow.

Semele luteola, A. Adams, Pro. Zool. Soc. 1853.

11ab. ——?

A rounded faintly sculptured species of a yellowish hue.

Species 43. (Mus. Cuming.)

AMPHIDESMA MARTINII. Amph. testá subtrigono-ovalá, crassá, convexiusculá, latere antico longiore, postico subtruncato et valdè flexuoso; albidá, carneo radiutá, concentricè plicatá, plicis crassis, irregularibus, sepè dichotomis aut confluentibus, posticè validioribus et flexuosis; intus lutescente.

MARTIN'S AMPHIDESMA. Shell somewhat triangularly ovate, thick, rather convex, anterior side the longer posterior somewhat truncated and very flexuous; whitish, rayed with flesh, concentrically plaited, plaits thicks, irregular, often dichotomous or confluent, posteriorly stronger and flexuous; yellowish within.

Semele Martinii, A. Adams, Pro. Zool. Soc. July, 1853. IIab. Rio.

An interesting species, distinguished by its dichotomous and solid growth, dredged in deep water off Rio by M. Adolphe Martin, a French captain, and diligent collector of shells.



Imphidesma.PLVII.



AMPHIDESMA.

PLATE VII.

Species 44. (Mus. Cuming.)

AMPHIDESMA CANCELLATA. Amph. testá suboblique ovatá, latere antico multo longiore, carneá, aurantio obscure radiatá; superficie undique dense obtuse reticulatocancellatá.

THE CANCELLATED AMPHIDESMA. Shell rather obliquely ovate, anterior side much the longer, flesh-colour; obscurely rayed with orange; surface densely obtasely reticulately cancellated throughout.

SOWERBY, Species Conch. (inedit.) Amphideoma, f. 8.

An odd valve of this little bluntly cancellated species is all that is at present known.

Species 45. (Mus. Cuming).

AMPHIDESMA LATA. Amph. testá ovatá, tenuiculá, nitente, liris tenuilus sulflexnosis concentricè sculptá, striis radiantibus minutis radiatá, latere antico multo longiore, lateribus ambobus rotundatis; albidá, purpuroscente-roseo nitidè biradiatá et punctatá.

THE CHEERFUL AMPHIDESMA. Shell ovate, rather thin, shining, sculptured concentrically with thin subflexuous ridges, and rayed with minute decussating strice, anterior side much the longer, both sides rounded; whitish, neatly two-rayed and dotted with purplerose.

Semele lata, A. Adams, Pro. Zool. Soc. July, 1858.

An oval shell, rounded at the ends, delicately rosepainted upon a shining white ground.

Species 46. (Mus. Cuming).

AMPHIDESMA STRIATA. Amph. testá subquadrato-cuneiformi, latere antico brevissimo, postico oblongo-producto, subflexuoso, tumido; concentrice lamellatá, lamellis subdistantibus, interstitiis concentrice striatis;
subpellucido-albá.

THE STRIATED AMPHIDESMA. Shell somewhat squarely wedge-shaped, anterior side very short, posterior oblong-produced, subflexuous, swollen; concentrically lamellated, lamellæ rather distant, interstices concentrically striated; subtransparent white.

RUPPELL, MSS. (Mus. Frankfort.)

Hab. Red Sen.

A delicate white *Petricola*-like species, differing from most species of the genus in having the posterior side of the shell longer than the anterior.

Species 47. (Mus. Cuming.)

AMPHIDESMA JUCUNDA. Amph. testá ovatá, lateribus subæqualibus, rotundatis, postico vix flexuoso: compresso-convexá, tenni, concentricè pulcherrimè lamellatis, lamellis breviter crispatis, interstitiis nitide radiutim densè liratis; pellucido-alba, intus sanguineo maculatà.

THE WELCOME AMPHIDESMA. Shell ovate, with the sides nearly equal and rounded, posterior side a little flexuous; compressly convex, thin, concentrically very beautifully lamellated, lamellae shortly curled, interstices neatly radiately densely ridged; transparent white, spotted within with blood-colour.

Semele jucunda, A. Adams, Pro. Zool. Soc. July, 1853. Hab. Singapore.

A thin, elaborately sculptured, white species, faintly blood-smeared in the interior.

Species 48. (Mus. Cuming.)

AMPHIDESMA PULCHELLA. Amph. testă orbiculari, convexă, subæquilaterali, latere postico paululum flexuoso; albidă, epidermide tenui versus marginem indută, umbonibus purpurascente-roseis, albiradiatis, intus purpurascente - tinctă; lævi, versus marginem concentrice tenuilirată, striis minutissimis impressis radiată.

THE PRETTY AMPHIDESMA. Shell orbicular, convex, nearly equilateral, posterior side a little flexuous; whitish, covered towards the margin with a thin epidermis; umboes purple-rose, white-rayed, interior purple-tinted; smooth, concentrically thin-ridged towards the margin, and rayed with very minute impressed striæ.

Semels pulchella, A. Adams, Pro. Zool. Soc. July, 1853. Hab. —— ?

A species of simple character, purple-stained, and delicately white-rayed at the umboes, and tinged with purple interiorly. Species 49. (Mus. Cuming.)

AMPHIDESMA VIRGINEA. Amph. testá oblongo-ovatá, tenui, subpellucido-albã, plicis filiformibus subdistantibus concentrice sculpta, interstitiis radiatim creberrime minute striatis; lateribus angulato-rotundatis, postico vix flexuoso.

THE VIRGIN AMPHIDESMA. Shell oblong-ovate, thin, subtransparent-white, sculptured concentrically with rather distant thread-like plaits, interstices radiately very closely minutely striated; sides angularly rounded. posterior side scarcely flexuous.

Semele virginea, A. Adams, Pro. Zool. Soc. July, 1853. Hab. Basay, Isle of Samar, Philippines; Cuming.

A semitransparent white shell, sculptured with rather distant thread-like plaits.

.._ . Species 50, (Mus. Cuming.)

Amphidesma lævis. Amph. testå subelliptico-ovatá, latere antico multo longiore, postico rotundato, producto, subflexnoso, sulco ab umbone ad marginem decurrente; alba, lævigata, sub lente minutè decussatim striata, epidermide tenuissimá nitente versus marginem indutá.

THE SMOOTH AMPHIDESMA. Shell somewhat elliptically ovate, anterior side much the longer, posterior rounded, produced, rather flexuous, with a groove running down from the umbo to the margin; white, smooth, minutely decussately striated beneath the lens, covered towards the margin with a thin shining epidermis.

SOWERBY, Pro. Zool. Soc. 1832, p. 199.

Hab. Xipixapi, West Columbia (in sandy mud, at the depth of ten fathoms); Cuming.

A delicate smooth white species, of a peculiar sub-elliptic ovate form.

Species 51. (Mus. Cuming.)

AMPHIDESMA COMPTA. Amph. testá orbiculari-ovatá, compressa, æquilaterali, lateribus rotundatis, postico vix flexuoso; albidá, luteo-fuscescente obscurè radiatá, concentrice lirato-striatá, striis minutis impressis dense radiatá.

THE NEAT AMPHIDESMA. Shell orbicularly ovate, compressed, equilateral, sides rounded, posterior scarcely flexuous; whitish, obscurely rayed with yellowish light brown, concentrically ridge-striated, densely rayed with minute impressed strice.

Semele compta, A. Adams, Pro. Zool. Soc. July, 1853. Hab. --- ?

Comparatively smooth in appearance, but elaborately decussately sculptured beneath the lens.

Species 52. (Mus. Cuming.)

AMPHIDESMA AMENA. Amph. testá subtrigono-orbiculari. ventricosiuscula, tenella, subæquilaterali, latere postico subproducto, paululum flexuoso; albida, umbonibus purpurascentibus; concentrice flexuoso-striata, striis minutis radiantibus.

THE DELICATE AMPHIDESMA. Shell somewhat triangularly orbicular, rather ventricose, thin, nearly coulateral, posterior side rather produced, a little flexuous; whitish, umboes purple-tinged; concentrically flexuously striated, with minute radiating striæ.

Semele amana, A. Adams, Pro. Zool. Soc. July, 1853. Hab. ----?

Sculptured with fine concentric ridge-like striæ, similar to the preceding species.

Species 53. (Mus. Cuming.)

AMPHIDESMA SIMPLEX. Amph. testá oblongo-ovatá, latere postico vix breviore, concentrice dense flexuoso-striata, striis minutissimis radiantibus decussată; rosaceoalbâ, umbonibus roseis.

THE SIMPLE AMPHIDESMA. Shell oblong-oval, posterior side scarcely shorter; concentrically densely flexuously striated, decussated with very minute impressed striæ; pinkish-white, umboes pink.

ADAMS and REEVE, Zool. Voy. Samarang, Molk p. 81. , S. 18 1. pl. 24. f. 11. 1800

Hab. China Sea.

A nearly equilateral Tellina-like species, tinged with pink, especially in the vicinity of the umboes

AMPHIDESMA.

		Species,		Pinte.	Species
amabilis (Semele), A. Adams	v.	32	luteola (Semele), A. Adams	V1.	42
amona (Semele), A. Adams	VII.	52	Martinii (Semele), A. Adams	VI.	43
australis, Sowerby	VI.	41	modesta (Semele), A. Adams	VI.	35
Californica (Semele), A. Adams	111.	19	obliqua (Tellina), Wood	1.	5
cancellata, Sowerby	VII.	44	orbiculata, Say	11.	13
carnicolor, Hanley	I.	6	pallida, Sowerby	1V.	22
casta (Semele), A. Adams	111.	18	proxima, C. B. Adams	111.	20
compta (Semele), A. Adams	VII.	51	pulchella (Semele), A. Adams	VII	48
cordiformis (Tellina), Chemnitz	v.	30	pulchra, Sowerby	t.	2
corrugata, Sowerby	۲.	4	punctata, Sowerby	IV.	26
crenulata, Sowerby	11.	8	purpurascens, Sowerby	VI.	37
decisa, Conrad	IV.	2.1	radiata, Ruppell	11.	12
decora (Semele), A. Adams	111.	15	reticulata, Sowerby	v.	29
decussata (Tellina), Wood	IV.	23	rosea, Sowerby	III.	17
duplicata, Sowerby	III.	14	rupium, Sowerby	11.	9
elliptica, Sowerby	v.	31	scabra, Hanley	v.	33
exarata, A. Ad. and Reeve	I.	1	simplex, A. Ad. and Reeve	VII.	53
formosa, Sowerby	IV.	27	Sincusis (Semele), A. Adams	٧.	28
Gruneri (Semele), A. Adams	IV.	21	solida, Gray	11.	10
icterica, Reeve	VI.	36	sponsa (Semele), A. Adams	VI.	40
Jayanum, C. B. Adams	IV.	23	striata, Ruppell	VII.	46
Jovis (Semele), A. Adams	v.	34	subtruncata, Sowerby	П.	11
jucunda (Semele), A. Adams	VII.	47	variegatum, Lamarck	I.	5
Jukesii (Semele), A. Adams	H.	7	venusta (Semele), A. Adams	1.	3
læta (Semele), A. Adams	VII.	45	vestalis (Semele), A. Adams	٧١.	38
lævis, Sowerby	VII.	50	virginca (Semele), A. Adams	V11.	49
lamellosa, Sowerby	111.	16	Zebucnsis, Hanley	IV.	
lenticularis, Sowerby	VI.	39			

MONOGRAPH

OF THE GENUS

MESODESMA.

"Huge Ocean shows within his yellow strand A habitation marvellously planned For life to occupy." Southey.







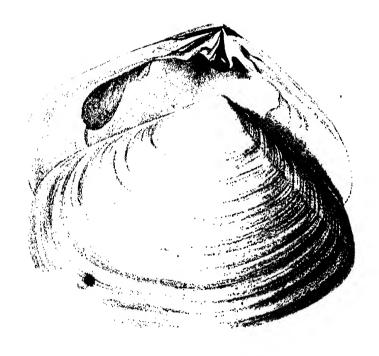








PLATE I.

Genus MESODESMA, Deshayes.

Testa tengono-avala vel transversa, interdum trigono-lanceolata, plus minus compressa, æquivalvis, inæquilateralis, plerumque alba, parum colorata, parum exsculpta. Carda dentibus lateralibus duobus, crassis, in utrăque vatră, cum foveolă profundă cochleariformi interjacente, ligamento inserto. Impressiones musculares inæquales, anteriori majore, elongală; impressio pallii sina posteriori.

shell triangularly ovate or transverse, sometimes triangularly lanceolate, more or less compressed, equivalve, inequilateral, generally white, little coloured, little sculptured. Hinge with two thick lateral teeth in each valve, with a deep spoon-shaped pit lying between, with the ligament inserted. Muscular impressions unequal, anterior the larger, elongated; impression of the mantle with a posterior sinus.

The genus Mesodesma was instituted by M. Deshayes for the reception of certain species of Mactracea having distinct peculiarities of their own, that had been assigned without consideration to different allied genera. include Mactra donacia, Crassatella polita, Crassatella cumento, Crassatella striata, Crassatella erycinæa, Amphidesma donacilla, and Amphidesma glabrella of Lamarck, Mya Nova-Zelandia of Chemnitz, and Erycina complanata of Sowerby. They are of a colourless heavy texture, and are mostly characterized by a triangular wedge form, though some are transverse and suborbicular. The hinge has not the thin triangle tooth of Mactra, and the ligament, unlike that of Crassatella, is situated in a spoonshaped cavity alongside the cardinal teeth. The muscular impressions are unequal, the anterior being elongated, and the impression of the mantle is deeply sinuated on the posterior side.

To the ten species described by M. Deshayes in his edition of the 'Anim. sans vertebres,' we have to add twenty-one species described chiefly by him about a twelvemonth since, in the collection of Mr. Cuming. They are intended for publication in the 'Proceedings of the Zoological Society' and in the 'Catalogue of Mollusca in the British Museum;' but as in neither of those works have the sheets containing Mesodesma yet issued from the press, I can only refer to M. Deshayes' manuscript tickets in the Cumingian collection, where the monograph was prepared.

The geographical distribution of the genus is very general. The most northern species are two which inhabit the

shores of Massachusetts, and one small species in the Mediterranean. New Zealand, Australia, and Van Diemen's Land contribute more than half of the species of which the localities are known. One single species, inhabiting Chili, is all that we have from South or Central America.

The most abnormal form of Mesodesma is M. triquetra, Hanley, which is Mr. Gray's genus Anapa.

Species 1. (Mus. Cuning.)

Mesodesma cornea. Mes. testá trigono-oblongá, crassá, lævigatá, lutescente-albá, quasi pellucidá, radiis duabus nigricantibus notatá; lateribus rotundatis, antico brevissimo.

THE HORNY MESODESMA. Shell triangularly oblong, thick, smooth, yellowish-white, as though transparent, marked with two blackish rays; sides rounded, anterior very short.

DESHAYES, Anim. sans vert. vol. vi. p. 133.

Amphidesma cornea, Lamarck.

Mactra cornea, Poli.

Amphidesma donacilla, Lamarck.

Donax plebeia, Montagu.

Erycina plebeia, Sowerby.

Hab. Mediterranean.

A rather solid though subtransparent-looking species, mostly rayed from the umboes with two grey-black bands.

ŗ

Species R (Mus. Cuming.)

Mesodesma transversa. Mes. testá trigono-oblongá, compressiusculá, subæquilaterali, antirè breviore, lævigatá, sub lente subirregulariter concentricè striatá; pellucido-albidá, nitente, lutescente tinctá.

THE TRANSVERSE MESODESMA. Shell triangularly oblong, rather compressed, nearly equilateral, anteriorly shorter, smooth, beneath the lens somewhat irregularly concentrically striated; transparent white, shining, tinged with yellow.

DESHAYES, MS. (Mus. Cuming.)

Hab. ---- P

A subtransparent shining yellow-tinged species, of less solid texture than the preceding, obscurely concentrically stricted.

Species 3. (Mus. Cuming.)

Mesodesma angusta. Mes. testá trigono-elongatá, angustá, compressiusculá, valdè inæquilaterali, latere antico brevissimo, truncato; læviyalá, nitente, epidermide olivaceo-luteá indutá.

The narrow Mesodesma. Shell triangularly elongated, narrow, rather compressed, very inequilateral, anterior side very short, truncated; smooth, shining, covered with an olivaceous-yellow epidermis.

DESHAYES, MS. (Mus. Cuming.)

Hab. ---- ?

A very inequilateral *Donax*-shaped species, of a smooth shining aspect, much compressed towards the posterior end.

Species 4. (Mus. Cuming.)

MESODESMA LATA. Mes. lestá trigono-ovatá, latá, compressá, concentricó densé irregulariter striatá, striis ad latera sulcatioribus, latere postico rotundato, antico multo breviore, angulato-truncatá, umbonibus subplanulatis; albidá, epidermide corneá, pallidé lutescente, indutá.

The broad Mesodesma. Shell triangularly ovate, broad, compressed, concentrically densely irregularly striated, striac more grooved at the sides, posterior side rounded, anterior much shorter, angularly truncated, umboes rather flattened; whitish, covered with a pale yellow-horny epidermis.

DESHAYES, MS. (Mus. Cuming.)

Hab. New Zealand.

A fine broad subcompressed species, angularly truncated down the anterior side, rounded at the posterior.

Species 5. (Mus. Cuming.)

Mesodesma elongata. Mes. testá elongato-oblongá, sotidiusculá, valdè inequitaterati, tatere postico compresso-producto et rotundato, antico brevissimo, truncuto; atbidá, epidermide tutescente-corneá nitente indutá.

THE ELONGATED MESODEMA. Shell elongately oblong, rather solid, very inequilateral, posterior side com-

pressly produced and rounded, anterior very short, truncated; whitish, covered with a shining yellowish-horny epidermis.

DESHAYES, MS. (Mus. Cuming.)

Hab. Raines' Island, Torres Straits; Ince.

Of an unusually elongated form, very shortly truncated at the anterior end, compressly produced at the posterior.

Species 6. (Mus. Cuming.)

MESODESMA NITIDA. Mes. testá subtrigono-elonyatá, valde inæquilaterali, latere antico brevissimo, crasso, tunidi-usculo, truncato, postico compresso-producto et rodudalo; nitente-albá, epidermide lutescente-corneá versus marginem indulá.

The shining Mesodesma. Shell somewhat triangularly clongated, very inequilateral, anterior side very short, thick, rather swollen, truncated, posterior compressly produced and rounded; shining-white, covered towards the margin with a yellowish-horny epidermis.

DESHAYES, MS. (Mus. Cuming.)

Hab. ---- ?

Closely allied to the preceding, from which it differs in being thicker and more swollen at the posterior end.

Species 7. (Mus. Cuming.)

MESODESMA OVALIS. Mes. testá oblongo-ovali, tenniculá, versus marginem compressá, subaquilaterali, latere pustico vix angustiore; nitente-albá, subobscurè striatá epidermide nigricante partim indutá.

THE OVAL MESODESMA. Shell oblong-oval, rather thin, compressed towards the margin, nearly equilateral, posterior side a little the narrower; shining white rather obscurely striated, partially covered with a blackish epidermis.

DESHAYES, MS. (Mus. Cuming.)

Hab. New Zealand; Hart.

Of a distinct typical form from the preceding species, rather thin and nearly equilateral, partially covered with a thin black epidermis.









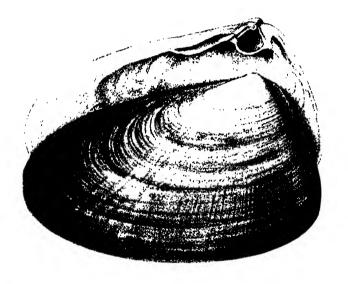








PLATE II.

Species 8. (Mus. Cuming.)

Mesodesma arctata. Mes. testá subtrigono-ovatá, obliquè curratá, convexo-compressá, valdè inæquilaterali, latere antico brevissimo, subtruncato; opaco-albá, vix striatá, epidermide pallidò lutescente indutá.

THE STRAITENED MESODESMA. Shell somewhat triangularly ovate, obliquely curved, convexly compressed, very inequilateral, anterior side very short, subtruncated; opake-white, searcely striated, covered with a pale yellowish epidermis.

GOLLD, Invertebrata of Massachusetts, p. 57. f. 39.

Mactra arctuta, Conrad.

Mactra deaurata, Conrad.

Mactra subtriangulata, Wood.

Hab. Cape Cod, Massachusetts, United States; Gould.

Of a peculiarly obliquely curved growth, very simply characterized in other respects.

Species 9. (Mus. Cuming.)

MISODESMA CUNEATA. Mes. lestă trigonă, subventrivesă, inaquiluterali, latere postico breviore, rotundato, antico longiore, latiusculo, declivi-angulato: albă, tenai-striată, epidermide viz nullă.

THE WEDGE-LIKE MESODESMA. Shell triangular, somewhatventricose, inequilateral, posterior side the shorter, rounded, anterior longer, rather broad, slantingly angular; white, finely striated, with scarcely any epidermis.

Desnayes, Anim. sans vert. vol. vi. p. 133.

Crassatella cancata, Lamarck.

Hab. New Zealand; Hart.

Chiefly distinguished by the anterior side being the larger and longer.

Species 10. (Mus. Cuming.)

MESODESMA STRIATA. Mes. testá subtrigoná, crassinscalá, subregailaterati, latere antico subangulato, postico rotundato; albá, subrugose lirato-striatá et sulcatá, epidermide vix nullá.

THE STRIATED MESODESMA. Shell somewhat triangular, rather thick, nearly equilateral, anterior side slightly angled, posterior rounded; white, rather roughly ridge. like striated and grooved, scarcely any epidermis.

DESHAYES, Encyclopédic Méthodique, vers, vol. ii. p. 443.

Mactra striata, Gmelin.
Crassatella striata, Lamarck.
Erycina striata, Sowerby.

Hab.

The most coarsely ridge-like striated of the species.

Species 11. (Mus. Cuming.)

Mesodesma donacia. Mes. testă trigono-clongată, calde compressă, calde inaquitaterati, latere antico brevis-simo, abrupte truncato, postico producto, compresso-attenuato; albidă, concentrice irregulariter striată, striis paucis minutis radiantibus, epidermide lutescente corneă nitente indută.

The wedge Mesodesma. Shell triangularly clongate, very compressed, very inequilateral, anterior side very short, abruptly truncated, posterior produced, compressly attenuated; whitish, concentrically irregularly striated, with a few minute radiating striae, covered with a shining yellowish-horny epidermis.

DESHAYES, Anim. sans vert. vol. vi. p. 133.

Mactra donacia, Lamarek.

Hab. Chili; Cuming.

A fine compressed *Donax*-shaped species, covered with a beautiful shining horny epidermis.

Species 12. (Mus. Cuming.)

Mesodesma ervein.ea. Mes. testa subtrigono-ocata, latinscula, compressa, subæquilaterali, latere antico breciore, panlulum truncato, ambobus rotundatis; opaco-alba, teviter striata, epidermide olivaceo-castanea induta.

THE ERYCINA MESODESMA. Shell somewhat triangularly ovate, rather broad, compressed, nearly equilateral, anterior side shorter, a little truncated, both sides rounded; opake-white, slightly striated, covered with an olive-chestnut epidermis.

DESHAYES, Anim. sans vert. vol. vi. p. 134.

Crassatella erycinæa, Lamarck.

Mesodesma Diemenensis, Quoy.

Hab. Singapore.

A compressed ovate shell, with the sides nearly equal, of an epake white substance, covered with a rich olive-chestnut epidermis.

Species 13. (Mus. Cuming.)

Mesodesma heterodon. Mes. lestá oblongo-ovatá, subtrigoná, inæquilaterali, latere untico concavo-angulato et truncato, crassiusculo, postico compresso-rolundato; albá, lævigatá, nilente, epidermide tenui corneá lutescente-fascá indutá.

THE IRREGULAR-TOOTHED MESODESMA. Shell oblongovate, subtriangular, inequilateral, anterior side concavely angled and truncated, rather thick, posterior compressly rounded; white, smooth, shining, covered with a thin yellowish brown-horny epidermis.

DESHAYES, MS. (Mus. Cuming.)

Hab. North-west Australia; Dring.

A smooth shining species, covered with a yellowishbrown epidermis, concavely truncated at the posterior end. Species 14. (Mus. Cuming.)

MESODESMA JAURESII. Mes. testá subquadrato-oblongá, gibbosinsculá, crassá, inæquilaterali, latere antico obtunse curvato et truncato, postico subattennalo-rotundato; opaco-albá, rugosissime striatá, epidermide luteo-olivaceá versus marginem indutá.

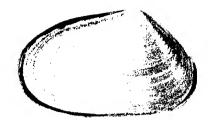
JAURES' MESODESMA. Shell somewhat squarely oblong, rather gibbous, thick, inequilateral, anterior side obtusely curved and truncated, posterior subattenuately rounded; opake-white, very roughly striated, covered towards the margin with a yellowish-olive epidermis.

DE JOANNIS, Guerin's Mag. de Zool. 1834.

Hab. St. George's Bank, Massachusetts, United States; Gould.

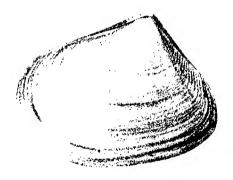
Particularly characterized by its coarse opake-white roughly striated exterior.













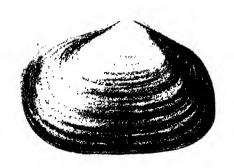




PLATE III.

Species 15. (Mus. Cuming.)

MESODESMA MACTROIDES. Mes. testá elongato-oblongá, ad umbones trigoná, tenuiculá, inæquilaterali, utrinque hiante, latere antico declivi-rotundato, postico producto! subpellucido-albá, nitenta, ad latere striatá, ad marginem epidermide fusco-nigrá indutá.

THE MACTRA-LIKE MESODESMA. Shell elongately oblong, triangular at the umboes, rather thin, inequilateral, gaping at both ends, anterior side slantingly rounded, posterior produced; subtransparent-white, shining, striated at the sides, covered with a brown-black epidermis at the margin.

DESHAYES, MS. (Mus. Cuming.)
Hab. Australia.

Of a somewhat distinct typical character, of a thinnish subpellucid texture, clongately oblong in form, rounded and gaping at each end.

Species 16. (Mus. Cuming.)

Mesodesma Plana. Mes. lestã oblique trigono-orbiculari, compresso-plana, inæquilaterali, latere antico paululum breciore; albida, concentrice striata, epidermide tenni lutescente-sericea induta.

THE FLAT MESODESMA. Shell obliquely triangularly orbicular, compressly flattened, inequilateral, anterior side a little the shorter; whitish, concentrically striated, covered with a thin yellowish silky epidermis.

HANLEY, Pro. Zool. Soc. 1843, p. 102.

Hab. Island of Ticao, Philippines; Cuming.

A convexly compressed rather solid species, having very much the appearance of an Astarle.

Species 17. (Mus. Cuming.)

Mesodesma intermedia. Mes. testá trigono-ovatá, crassiasculá, lutere antico brevi, angulato-truncato, postico rotundato; fuscescente-albá, subrugoso-striatá, ad umbones lavigatá.

THE INTERMEDIATE MESODESMA. Shell triangularly ovate, rather thick, anterior side short, angularly truncated, posterior rounded; fuscous-white, rather roughly striated, smooth at the umboes.

DESHAYES, MS. (Mus. Cuming.)

of more regular triangular form.

Species 18. (Mus. Cuming.)

Of more solid growth than the preceding species, and

Mesodesma spissa. Mes. testá trigono-oblongá, crassá, anticè subacutè angulatá et truncatá, posticè rotundatá, ad umbones compressá, areá posticá latiusculá, subconcavá; fuscescente-albá, irregulariter striatá.

THE MASSIVE MESODESMA. Shell triangularly oblong, thick, anteriorly rather sharply angled and truncated, posteriorly rounded, compressed at the umboes, posterior area rather broad, subconcave; light fuscous-white, irregularly striated.

Hab. New Zealand; Hart.

A rather large Donax-shaped species, of solid growth and of a stone-white semifossil aspect.

Species 19. (Mus. Cuming.)

Mesodesma trigona. Men lestá trigono-ovalá, crassá, gibboná, subæquilaterali, posticè rotundulá, anticè subangulato-rostratá, areá anticá latá, nubcordiformi; albidá, rufescente-fulvo sparsim tinctá, concentricè irregulariter liratá et striatá, versus umbones lævigatá, nitente.

THE TRIANGULAR MESODESMA. Shell triangularly ovate, thick, gibboys, nearly equilateral, posteriorly rounded, anteriorly rather angularly beaked, auterior area broad, somewhat heart-shaped; whitish, sparingly tinged with reddish-fulvous, concentrically irregularly ridged and striated, smooth, shining towards the umboes.

DESHAYES, Ency. Méth. vers. vol. ii. p. 444.

This approaches more than any to the typical form of Crassatella, represented by C. rostrata.

Species 20. (Mus. Cuming.)

Mesodesma glabrata. Mes. testá trigono-ovatá, compressá, solidiusculá, subæquilaterali, posticè rotundatá, anticè obtusè angulatá, area antica oblongo-cordatá; concentricè corrugato-liratá, ad umbones glabratá.

THE SMOOTH MESODESMA. Shell triangularly ovate, compressed, rather solid, nearly equilateral, poste-

MESODESMA.—PLATE III.

riorly rounded, anteriorly obtusely angled, anterior area oblong-cordate; concentrically wrinkle-ridged, smooth at the umboes.

DESHAYES, Anim. sans vert. vol. vi. p. 133.

Crassatella glabrata, Lamarck.

Hab. Australia.

The shell figured in Conch. Systematica under this name is *M. erycinæa*, a shell smooth and covered with a polished horny epidermis throughout. Lamarck characterizes his *C. glubrata* as being grooved.

Species 21. (Mus. Cuming.)

Mesodesma Novæ-Zelandlæ. Mes. testá oblongo-ovatá, transversá, solidiusculá, subæquilaterali, lateribas rotundatis, antico paululum breviore; albidá, irregulariter striată, epidermide tenui corneă fulvescente-albă nitente indută.

THE NEW ZEALAND MESODESMA. Shell oblong-ovate, transverse, rather solid, nearly equilateral, sides rounded, anterior a little the shorter; whitish, irregularly striated, covered with a thin fulvous-white shining horny epidermis.

Mya Novæ-Zelandiæ, Chemnitz, Conch. Cab. vol. vi. pl. 3. f. 19, 20.

Mya australis, Gmelin.

Mactra australis, Dillwyn.

Mesodesma Chemnitzii, Deshayes.

Hab. New Zealand; Earl.

Chiefly distinguished by its transverse form, which has no inclination whatever to the *Donax* form characteristic of this genus.

Mesedesma , PLIV

























PLATE IV.

Species 22. (Mus. Cuming.)

Mesodesma angulus. Mest testă acute oblique oblongoangulată, compressă, antive brevissime truncată, abrupte relusă, ad umbones subrostrată, postice tenui-roturdată; nitente-albă, obsolete lineari-sulcată.

THE ANGLE MESODESMA. Shell sharply obliquely oblong-angled, compressed, anteriorly very shortly truncated, abruptly blunted, somewhat beaked at the umboes, posteriorly thinly rounded; shining white, obsoletely linearly grooved.

DESHAYES, MS. (Mus. Cuming.)

Hab. Philippine Islands.

A small, highly-polished, subtransparent white shell, remarkably abruptly shortened at the posterior end.

Species 23. (Mus. Cuming.)

Mesonesma magrodon. Mes. textá subtrigono-orbiculari, subaquilaterati, lateribus ambobus declivibus, deinde rolundatis, antico paulo breviore; albidá, concentricò sulcatá et liratá, livis versus umbones obsoletis.

THE LARGE-TOOTHED MESODESMA. Shell somewhat triangularly orbicular, nearly equilateral, both sides slanting, then rounded, anterior side a little the shorter; whitish, concentrically grooved and ridged, ridges obsolete towards the umboes.

DESHAYES, MS. (Mus. Cuming.)

Hab. --- ?

A small, Astarte-shaped species, strongly but somewhat irregularly ridged towards the margin.

Species 24. (Mus. Curning.)

Mesodesma retusa. Mes. testă subgnadrato-oblongă, tenniculă, concavă, vulde inæquilaterali, latere antico peculiariter brevi et truncato, postico rotundato; albidă, oblique concentrice striată, ad umbones carneo tinclă, versus marginem epidermide luteo-fuscă indulă.

THE BLUNT MESODESMA. Shell somewhat squarely oblong, rather thin, concave, very inequilateral, anterior side peculiarly short and truncated, posterior rounded; whitish, obliquely concentrically striated, tinged with flesh at the umboes, covered towards the margin with a yellowish-brown epidermis.

DESHAYES, MS. (Mus. Cuming.)

A rather thin obliquely oblong species, peculiarly abruptly shortened on the posterior side, having somewhat the typical form of *Convicardia*.

Species 25. (Mus. Cuming.)

Mesodesma lanceolata. Mes. testá trigono-lanceolata, cuneiformi, valde hacquitaterali, latere antico tumidiusculo, abrupiè truncato, lato, postico lanceolato-attenuato; albida, nitente, parim atriata.

THE LANCEOLATE MESODESMA. Shell triangularly lanceolate, wedge-shaped, very inequilateral, anterior side rather swollen; abruptly truncated, broad, posterior side lanceolately attenuated; whitish, shining, but little striated.

DESHAYES, MS. (Mus. Cuming.)

Hab. North-west Australia; Dring.

The most peculiarly clongated wedge form of the genus.

Species 26. (Mus. Cuming.)

MESODESMA CRASSULA. Mes. testá obliquè trigono-orbiculari, subplaná, Interibus ambobus declicibus, deinde rotundatis, antico breviore; albidá, ad umbones obseurè radiatá, leciter striatá, versus marginem epidermide tenni corneá nisente indutá.

THE THICKISH MESODESMA. Shell obliquely triangularly orbicular, rather flat, both sides slanting, then rounded, anterior the shorter; whitish, obscurely rayed at the umboes, faintly striated, covered towards the margin with a thin shining horny epidermis.

DESHAYES, MS. (Mus. Cuming.)

Hab. ----?

Closely allied to M. plana, but of less solid texture.

Species 27. (Mus. Cuming.)

Mesodesma sulcata. Mes. lestá trigono-ocatá, subventricosá, esquilaterati, latere antico latiore, concentricè sulcatá et densè liratá, tiris ad areum posticam leviter elevatis; lutescente-albá.

THE GROOVED MESODESMA. Shell triangularly ovate, rather ventricose, equilateral, anterior side the broader,

concentrically grooved and densely ridged, ridges | Deshayes, MS. (Mus. Cuming.) slightly raised on the posterior area; yellowish-white. DESHAYES, MS. (Mus. Cuming.) Hab. --- P

An equilateral triangularly transverse species, rather densely ridged and grooved.

Species 28. (Mus. Cuming.)

Mesodesma triquetra. Mes. testa oblique triangulari, crassă, calde gibbosă, inagnilaterali, latere postico brevi, rotundato, antico longiore, angulato-producto, areâ lata, concavo-cordata, umbonibus parcis, subdistantibus, ligamento subexterno : sordidè albá.

THE THREE-CORNERED MESODESMA. Shell obliquely triangular, thick, very gibbous, inequilateral, posterior side short, rounded, anterior longer, angularly produced, area broad, concavely heart-shaped, umboes small, rather distant, ligament subexternal; dead

HANLEY, Pro. Zool. Soc. 1843. p. 101.

Anapa triquetra, Gray.

Hab, Van Diemen's Land.

\ \ \(\) A gibbous Mulinia-like species, with an unusually large and broad anterior area, typically distinct from any other species of the genus.

Species 29. (Mus. Cuming.)

Mesodesma mitis. Mex. trigono-ovatá, subcentricosá, subæquilaterali, latere antico paulo breviore, vix truncato; albå, irregulariter sulcato-strintå.

THE MILD MESODESMA. Shell triangularly ovate, rather ventricose, nearly equilateral, anterior side a little the shorter, scarcely truncated; white, irregularly groovestriated.

Hab. ----?

A nearly equilateral transverse shell, of simple character.

Species 30. (Mus. Cuming.)

MESODESMA LAYARDI. Mes. testá trigono-ovatá, subcompressa, vix aquilaterali, latere antico obtuse triangulari, latiore; albida, pallide violaceo-tincta, irreaulariter striata, striis ad latera rugosis, intus purpurascente-riolaceă.

LAYARD'S MESODESMA. Shell triangularly ovate, rather compressed, scarcely equilateral, anterior side obtusely triangular, broader; whitish, tinged with pale violet. irregularly striated, strice rough at the sides, interior purple-violet.

DESHAYES, MS. (Mus. Cuming.)

Hab. Ceylon; E. L. Layard.

Chiefly distinguished by its delicate purple-violet colouring.

Species 31. (Mus. Cuming.)

MESODESMA PRÆCISA. Mes. testå trigono-oblongå, crassa, gibbosiusculă, valde inaquilaterali, latere antico abrupte truncato, postico producto, rotundato; albida, ferrugineo-fusco tincta, ad marginem epidermide ferrugineo-nigricante indutá.

THE CHOPPED MESODESMA. Shell triangularly oblong. thick, rather gibbous, very inequilateral, anterior side abruptly truncated, posterior produced and rounded; whitish, tinged with rust-brown, covered at the margin with a rust-black epidermis.

DESHAYES, MS. (Mus. Cuming.) Hab. Van Diemen's Land; Gunn.

A rather solid rust-stained shell, very abruptly truncated at the anterior end.

	Plate.	Species.			
angulus, Desh	IV.	22	lata, Desh	Ŧ.	1.
angusta, Desh	1.	3	Layardi, Desh	IV.	30
arctata (Mactra), Conrad	11.	8	macrodon, Desh	IV.	23
Chemnitzii, Desh	111.	21	Mactroides, Desh	Ш.	15
cornea (Mactra), Poli	1.	1	mitis, Desh	IV.	29
erassula, Desh	IV.	26	nitida, Desh	1.	6
cuncata (Crassatella), Lam	11.	9	Novæ-Zelandiæ (Mya), Chem	111.	21
Diemenensis, Quoy	11.	12	ovalis, Desh	l.	7
donacia (Mactra), Lam	11.	11	plana, Hauley	111.	16
donacilla, Desh	l.	1	præcisa, Desh	IV.	31
dongata, Desh	1.	5	retusa, Desh	1V.	24
ervennea (Crassatella), Lam	П.	12	spissa, Reeve	111.	18
glabrata (Crassatella), Lam	III.	20	striata (Mactra), Gmelin	11.	10
heterodou, Desk ;	П.	13	sulcata, Desh	IV.	27
atermedia, Desh	Ш.	17	transversa, Desh	3.	2
Jauresii, De Jounnis	П.	14	trigona, Desh	111.	19
Sanceolata, Desh.	IV	25	triouetra Haulen 4	IV	9.8

MONOGRAPH

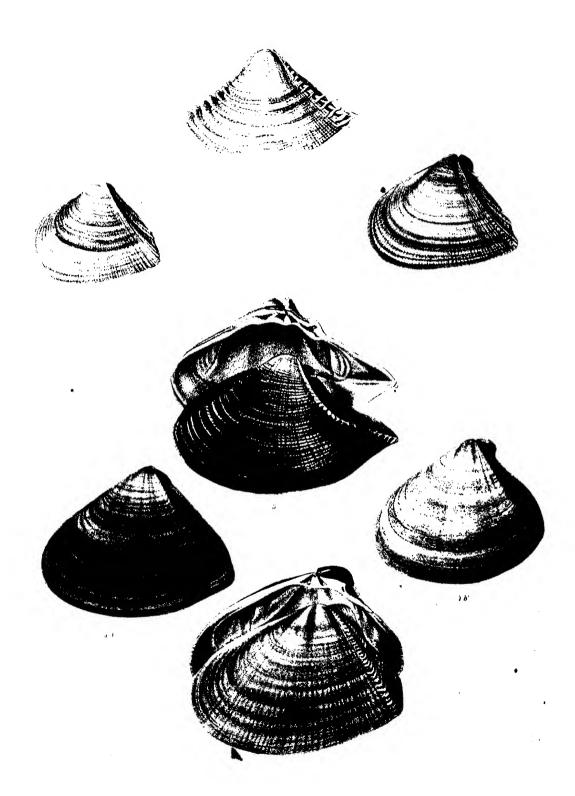
OF THE GENUS

DONAX.

Shine the material, but the slime was turned To adamant by their petrific touch: Frail were their frames, ophemeral their lives, Their masonry imperishable."—Montgomery.



(Chamballa)



DONAX.

PLATE I.

Genus DONAX, Linneus.

Testa trigono-ovata vel oblonya, plus minus cuneata, interdum flexuosa, æquivalvis, plerumque valde inæquilateralis, latere postico sæpissimè abruptè truncato, interdum lavigatu, plerumque radiatim lineari-sulcata. Dentes cardinales alterius valva duo, alterius unicus, superne bifidus; dentes laterdes duo vel unus, plus minus remoti. Ligamentum buternum, breve, plerumque bipartitum, partim post umbones positum. Impressio muscularis pallii sinu magno.

Shell triangularly ovate or oblong, more or less wedgeshaped, sometimes flexuous, equivalve, generally very inequilateral, the posterior side being often very abruptly truncated, sometimes smooth, generally radiately linearly grooved. Two cardinal teeth in one valve, and one in the other, bifid at the upper part; two or one lateral teeth, more or less distant. Ligament external, short, generally bipartite, partially placed behind the umboes. Muscular impression of the mantle with a large sinus.

There is scarcely any assemblage of bivalves so distinct in generic character as those which have been associated, without change, from the time of Linneus, under the head of Donax. They are distinguished by little variation either in form, sculpture, or colouring. In form they are typirally of a triangular wedge-shape, the anterior side being long and rounded, the posterior very short and abruptly truncated. In sculpture they are, with few exceptions, either plain, or, more generally, radiately linearly grooved. In colour they are mostly of a uniform-fulvous or dull grey, frequently, however, tinted with rays. They have neither the variety of contour nor the spines and laminæ, unless excepting the D. scortum, which characterize the Venue and Cockle tribes, nor do they excite the attention of connoisseurs by much variety or brilliancy of colour.

Of the species contained in the following monograph, from sixty to seventy in number, more than half have not yet been figured. The conchologists who have paid most attention to this genus in the present day, are M. Deshayes and Mr. Hanley; a few species have also been described by M. Philippi and Dr. Gray. The habitats of the Dosaces are in almost all temperate and tropical seas; so miscellaneous indeed are they, that their geographical distribution presents no special satures for observation.

Species 1. (Fig. 1 and 3, Mus. Cuming.)

Donax scortum. Don. testá trigono-oblongá, gibbosá, umbonibus angulato-approximatis, subcentralibus, concentrice subirregulariter dense lamellosa, striis sublilibus radiantibus decussatis, lamellis anticis erectis, fimbriatis, interstitiis clathralis, posticis tenuioribus numerosis, ad amaulum plus minus squamato-spinosis; sordide alba, intus violacea; latere antico subangulato, lunula oblonga, postico acutissime angulato, lutissime concavo-truncato.

THE HIDE DONAX. Shell triangularly oblong, gibbous, umboes angularly approximated, nearly central; concentrically somewhat irregularly densely lamellose, decussated with radiating strize, anterior lamellae erect, fimbriated, interstices latticed, posterior lamellæ thinner and more numerous, more or less squamately spinose on the angle; dirty white, violet in the interior; anterior side slightly angled, with an oblong lunule, posterior very sharply angled, very broadle concavely truncated.

Linnaus. 1. Nat. (12th edit.) p. 1126.

Testa juvenis. Donax pubescens, Linnaus.

Hab. Cape of Good Hope.

There can be little doubt but that the Linnsean D. pubescens, represented at Fig. I, is the young of the wellknown adult D. scortum, Fig. 3.

Species 2. (Mus. Cuming.)

DONAX DENTIFERA. Don. testa trigono-ovala, latiuscula, compressă, antice rotundată, postice acule crenulată et plano-truncată, area dense, granulato-striată, versus marginem bidenticulată; sordide cinerea vel fulpescente, radiatim tenui-sulcate liris poslicis cant

THE TOOTHED DONAX, "Reall triangularly ovate, rat broad, compressed, anteropy founded, posteriorly sharply angled and flatly truncated, with the area densely crenulately striated, towards the margin double-denticulated; dull ash or fulvous, radiately Tuely grooved, the posterior ridges crenulated?

HANLEY, Pro. Zool. Soc. 1843, p. 6.

Hab. Panama.

An extremely characteristic species, chiefly remarkable two pairs of interlocking teeth at the ventral posterior shell.

Species 4. (Fig. a, b, Mus. Cuming.)

DONAX DELTOIDES. Don. testá trigono-ovatá, solidiusculá, compressá, radiatim subtilissimè striutá, lævigatá, politá, purpurascente-fuscá vel fulvá, umbonibus interdum violuceis, latere antico rotundato, postico obtusè truncato, area convexá.

THE DELTOID DONAX. Shell triangularly ovate, rather solid, compressed, radiately very finely striated, smooth, polished, purplish-brown, or fulvous, umboes sometimes violet, anterior side rounded, posterior obtusely truncated, area convex.

LAMARCE Anim. sans vert. (Deshayes' edit.) vol. vi. p. 241.

Hab. Brisbane, East Coast of New Holland; Strange.

The *D. epidermia* of Lamarck is probably a variety of this species.

Species 5. (Mus. Cuming.)

Donax serra. Don. testá oblongo-cuneatá, solidiusculá,

compressă, lævigată, sub lente radiutim etrială, prope angulum posticum sulcată, pallide spadiceă, ad umbones violaceo-radiată; latere antică placuminato-rolundato, postico obluse angulate, undato-corrugato, ad extremilatem hiante.

THE SAW DONAX. Shell oblong wedge-shaped, rather solid, compressed, smooth, beneath the lens radiately striated, near the posterior angle grooved; light fawn, violet-rayed at the umboes; anterior side subacuminately rounded, posterior obtusely angled, wave-wrinkled, gaping at the extremity.

CHEMNITZ, Conch. Cab. vol. vi. p. 257. pl. 25. f. 251,

252.

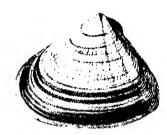
Donax ringens, Lamarck. Capsa ringens, Deshayes.

Hab. Cape of Good Hope.

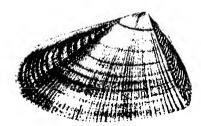
Distinguished by its ample oblong-compressed form and conspicuous wave-wrinkled posterior area.

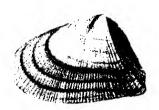


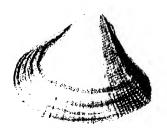














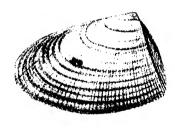




PLATE II.

Species 6. (Mus. Cuming.)

Donax Hanleyana. Don. testă trigono-cuneată, radiatim lineari-sulcată, cinerascente-albă, purpurascenterosco latiradiată, valdè inæquilaterali, posticè gibbosă, ubruplè truncată, anticè acuminato-coarctată et paululum hiante; area postică convexă, concentricè granulată, ntrinque tenuicarinată.

Hanley's Donax. Shell triangularly wedge-shaped, radiately linearly grooved, pale ash-white, broadly rayed with purplish-rose, very inequilateral, posteriorly gibbous, abruptly truncated, anteriorly acuminately contracted and a little gaping; posterior area convex, concentrically granulated, finely keeled on each side.

Philippi, MS. (Mus. Cuming.)

Hab. Rio Janeiro.

Chiefly distinguished by the acuminated and pinched growth of the anterior end, whilst the posterior is full and granulated.

Species 7. (Fig. a, b, Mus. Cuming.)

Donax TRIFASCIANA. Don. testá subtrigono-ovatá, latiusculá, compressó, tenuissimè radiatim striatá; albidá, rosco trifasciatá, vel cinereá, plumbeo-tinctá; lateribus declivi-rotundatis, postico vix truncato, obtusè anguluto, crispato-corrugato.

THE THREE-BANDED DONAX. Shell somewhat triangularly ovate, rather broad, compressed; very finely radiately striated; whitish, three-banded with rose, or ash-colour, lead-stained; sides slantingly rounded, posterior side scarcely truncated, obtusely angled, crispately wrinkled.

Hab. Philippine Islands.

A compressly ovate species, variously coloured, with the posterior side delicately crisply wrinkled and little truncated.

Species 8. (Mus. Cuming.)

Donax compressa. Don. testá trigono-cuneiformi, compressissimá, postice latá, obtuse angulatá, antice rotundatá, radiatim minutissime dense striatá; area posticá minutissime crispato-corrugatá; griseo-cinered, lineis obscure venosá, ad umbones violaceo triradiatá. The compressed Donax. Shell triangulaily wedgeshaped, very compressed, posteriorly broad, obtusely angled, anteriorly rounded, radiately very minutely densely striated; posterior area very minutely crispately wrinkled; greyish-ash, obscurely veined with lines, three-rayed with violet at the umboes.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vi. p. 240. Hab. Sumatra.

Peculiarly compressed from the posterior side, which is broad and obtusely angled.

Species 9. (Mus. Cuming.)

Donax rugosa. Don. testá elongato-oblongá, solidinsculá, dense radiatim sulcatá; cinereo-spadiceá, interdum albifasciatá, vel miniato tinctá; valdè inæguilaterati, latere postico abruptissimè truncato, ad angulum carinato; area concentrice undato-corrugatá, latere antico acuminato-rolundato.

THE ROUGH DONAX. Shell clongately oblong, rather solid, densely radiately grooved; ash-fawn, sometimes white-banded, or scarlet-tinged, very inequilateral, posterior side very abruptly truncated, keeled at the angle; area concentrically wave-wrinkled, anterior side acuminately rounded.

LINNÆUS, Syst. Nat. (12th edit.) p. 1127.

Hab. Gold Coast, West Africa.

Distinguished by its narrow oblong-conical form and wave-wrinkled posterior area.

Species 10. (Mus. Cuming.)

DONAX ASSIMILIS. Don. testá rotundato-oblongá, medio subcontractá, sordidè cinereá, ad marginem plumbeo-fasciatá, ad umbones violaceo radiatá, radiatim densè lineari-sulcatá, posticè granoso-decussatá, latere antico rotundato, postico concavo-truncato.

THE SIMILAR DONAX. Shell rotundately oblong, subcontracted in the middle, dull ash-colour, lead-banded at the margin, violet-rayed at the umboes, radiately densely linearly grooved, posteriorly granosely decussated, anterior side rounded, posterior concavely truncated.

HANLEY, MS. (Mus. Cuming.)

Hab. Panama.

A dull obese shell, densely grained about the posterior area.

Species 11. (Mus. Cuming.)

Donax carinata. Don testá elongato cunciformi, gibbosá, antice acuminatá, postice concavo-truguatá, lateribus ab umbonibus subcentratibus decligibus; funeocastaneá, ad umbones violaceá; lævigatá; politá, versus marginem dense lineari-sulcatá.

The Keeled Donax. Shell clongately wedge-shaped, gibbous, anteriorly acuminated, posteriorly contravely truncated, sides slanting from the umboes, which are nearly central; smoky-chestnut, violet at the umboes; smooth, polished, towards the margin densely linearly grooved.

HANLEY, Pro. Zool. Soc. 1843, p. 5.

Hab. San Blas, California.

Distinguished by its equislanting clongately wedge-shaped form, and polished chestnut colouring.

Species 12. (Mus. Cuming.)

JONAX ASPER. Don testa trigono-cuneata, medio lata el gibbosuldi, ad umbones rostrata et elevato-contracta, cinerascente dos, subopaca, radiatim dense liruta, ad latus posticima et ad uream dense corrugato-crenata, latere cutico subaccuminato-rotundato, postico late concavo-tragosto.

THE ROUGH Decex. Shell triangularly wedge-shaped, broad and rather gibbous in the middle, beaked, clevately contracted at the umboes, ash-white, rather opake, radiately densely grooved, at the posterior side and area densely corrugately crenated, anterior side rather acuminately rounded, posterior broadly concavely truncated.

HANLEY, MS. (Mus. Cuming.)

Hab. Tumbez, Peru; Cuming.

A very characteristic species, elevately beaked as it were about the umbocs, and very concavely truncated on the posterior side, whilst the whole of the posterior half of the shell is densely wrinkle-crenated.























PLATE III.

Species 13. (Mus. Cuming.)

Donax Ticaonica. Don. testá trigono-ovatá, ad umbones acutè angulato-productá, deinde compressá, lævigatá, nilente, ad aream posticam crispato-striatá, albidá aut fulvo-castaneá, epidermide corneá interdum indutá, latere postico brevissimè truncato, antico acuminato-rotundato.

THE TICAO DONAX. Shell triangularly ovate, sharply angled and produced at the umbocs, then compressed, smooth, shining, crisply striated on the posterior area, whitish or fulvous-chestnut, sometimes covered with a horny epidermis, posterior side very shortly truncated, anterior acuminately rounded. HANLEY, MS. (Mus. Cuming.)

Hab. Island of Ticao, Philippines; Cuming.

Chiefly distinguished by the sharply angled produced growth of the umbocs.

Species 14. (Mus. Cuming.)

DONAX COLUMBELLA. Don. testá trigono-ovatá, tenuiculá, compressá, sub leute minulè radiatim striatá, nitente, rosaccá vel purpurascente-cinercá, concentricè fasciatá, latere antico rotundato, postico declivi-truncato, obtusè angulato.

THE LITTLE DOVE DONAX. Shell triangularly ovate, rather thin, compressed, beneath the lens minutely radiately striated, shining, pinkish or purplish-ash, concentrically banded, anterior side rounded, posterior slantingly truncated, obtusely angled.

1. AMARCK, Anim. sans vert. (Deshayes' edit.) vol. vi. p. 242. Hab. Swan River; Dr. Bacon.

A somewhat delicate species, variously coloured.

Species 15. (Mus. Cuming.)

Donax cuneata. Don. testá subtrigono-oblongú, compressá, sub lente minuté radiatim striatá, nitente, purpurascente, albifasciatú, interdum plumbeú, lineis rufescentibus subtilissime venosá, latere antico acuminatorolundato, postico laté angulato et crispato-granato.

THE WEDGE-LIKE DONAX. Shell subtriangularly oblong, compressed, beneath the lens minutely radiately striated, shining-purplish, white-banded, sometimes lead-

colour, finely veined with reddish lines, anterior side acuminately rounded, posterior broadly angled and crispately granuled.

LINNÆUS, Syst. Nat. (12th edit.) p. 240. Hab. Ceylon.

A somewhat broad compressed species, crisply granuled on the posterior area, which is rather broadly bluntly angled.

Species 16. (Mus. Cuming.)

Donax punctato-striata. Don testá trigono-ovalá, solidiusculá, umbonibus subcentralibus, compresso-gibbosis, radiatim punctato-striatis, striis sulciformibus; pallidè livido-fuscá vel fulvo-castaneá; lateribus declivi-angulatis, postico concavo-appresso.

THE PUNCTURED-STRIATED DONAX. Shell triangularly ovate, rather solid; umboes nearly central, compressly gibbous, radiately punctured-striated, strize groove-like; pale livid-brown, or fulvous-chestnut; sides slantingly angled, posterior concavely appressed.

HANLEY, Pro. Zool. Soc. 1843, p. 5. Hab. Mazatlan, Gulf of California.

Of a peculiar stoutly angled Crassatella-like form, with the umboes nearly central.

Species 17. (Mus. Cuming.)

Donax ovalina. Don. testá ovatá, compressiusculá, utrinque convexá, concentricè rudè striatá, albidá, nigricante-purpureo interruptè radiatá, vel plumbeocinereo obscurè tenuivenosá; lateribus subæqualiter rotundatis.

The OVAL Donax. Shell ovate, rather compressed, everywhere convex, concentrically rudely striated, whitish, interruptedly rayed with darkish purple or leadenash, obscurely finely veined; sides nearly equally rounded.

DESHAYES, Pro. Zool. Soc. March, 1854.

Hab. —— ?

This has hardly the character of *Donax*, being in no degree wedge-shaped, but rather the external form of *Amphideema*.





















PLATE IV.

Species 18. (Mus. Cuming.)

DONAX NAVICULA. Don. textá oblongo-rhomboidea, gibbosiuscula, solida, lævigata, obsoletè radiatim sulcata, epidermide pallidè cornea nitente induta, umbonibus subcentralibus, latere antico acuminato-rotundato, postico acuminato-truncato, rostrato; lunula areaque postica concavis, fumeo-nigricantibus, nitentibus.

THE BOAT DONAX. Shell oblong-rhomboid, rather gibbous, solid, smooth, obsoletely radiately grooved, covered with a pale shining horny epidermis; umboes nearly central, interior side acuminately rounded, posterior acuminately truncated, beaked; lunule and posterior area concave, smoky-black, shining.

HANLEY, MS. (Mus. Cuming.)

Hub. Gulf of Nicoiyo, Central America; Cuming.

A very distinct and characteristic species, both in form and colouring.

Species 19. (Mus. Cuming.)

Donax anatinus. Don. testá ovato-oblongá, versus marginem subcompressá, radiatim tenuistriatá, albidá, epidermide fulvescente indutá, ad umbones subviolaceis; latere antico rotundato, postico obtuse declivi-angulato, vix truncato.

THE DUCK'S BILL DONAX. Shell ovately oblong, rather compressed towards the margin, radiately finely striated, whitish, covered with a fulvous horny epidermis, a little violet at the umboes; anterior side rounded, posterior obtusely slantingly angled, scarcely truncated.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vi. p. 249.

Donax trunculus, Auct. Brit.

Donax ruber, Turton.

Cuneus vittatus, Da Costa.

Hab. British Seas.

The well-known species of our coast, abundant on all sides.

Species 20. (Mus. Cuming.)

Donax Lunularis. Don. testá subcylindraceo-oblongá, crassiusculá, valde gibbosá, radiatim dense tempissime sulcatá, spadiceá, concentrice saturate fasciatá; latere antico subproducto, rolundato, postico abruptè latè truncato.

THE LUNULED DONAX. Shell somewhat cylindrically oblong, rather thick, very gibbous, radiately densely very finely grooved, fawn-coloured, concentrically darkerbanded; anterior side somewhat produced, rounded, posterior abruptly broadly truncated.

Philippi, MS. (Mus. Cuming.)

IIab. --- ?

It is the posterior area, and not the lunule, as the name given to this species would infer, is so prominently developed.

Species 21, (Mus. Cuming.)

Donax culter. Don. testa subflexuoso-oblonga, medio contracta, radiatim dense tennisulcata, cærulescentegrisea, violaceo pullide tincta, intus intense violacea; latere antico rotundato, postico gibboso, declivi-rostrato, vix angulato.

THE PLOUGH-SHARE DONAX. Shell somewhat flexuously oblong, contracted in the middle, radiately densely finely grooved, bluish-grey, tinged with pale violet, deep violet within; anterior side rounded, posterior gibbous, slantingly beaked, scarcely angled.

HANLEY, MS. (Mus. Cuming.)

Hab. Gulf of California.

Distinguished afrom all other species by its peculiar Modiola-like form.

Species 22. (Fig. a, b, Mus. Cuming.)

Donax Cayennensis. Don testá ovato-cunvatá, subtrigoná, compressá, densè tenuissimè sulcatá, liris posticis creberrimè crispato-clathratis; latere antico rolundato, postico abruptè convexo-truncato; lutescente-albá, ad umbones roseá, versus marginem griseo-fasciatá, vel violaceo-fuscá, ad umbones radiatá.

THE CAYENNE DONAX. Shell ovately wedge-shaped, subtriangular, compressed, densely very finely grooved, posterior ridges very closely crisply latticed; anterior side rounded, posterior abruptly convexly truncated, yellowish-white, rose at the umboes, grey banded towards the margin, or violet-brown, rayed at the umboes. LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vi. p. 245.

Hab. Panama and St. Elena, West Columbia; Cuming.

An interesting species of regular wedge-form, variously coloured.

Species 23. (Fig. a, b, Mus. Cuming.)

Donax trungulus. Don. testá elongato-oblongá, convexá, solidiusculá, posticè leviter sinuosá, radiatim striatá, versus marginem leviter sulcatá; albidá, epidermide fulvescente indutá, interdum radiatá, nitente; latere antico rotundato, postice breviter obtusè angulato, subtruncato.

THE TRUNCATED DONAX. Shell clongately oblong, convex, rather solid, slightly sinuous posteriorly, radiately striated, strike slightly grooved towards the margin; whitish, covered with a fulvous horny epidermis, sometimes rayed, shining; anterior side rounded, posterior shortly obtusely angled, slightly truncated.

LINNÆUS, Syst. Nat. (12th edit.) p. 1127.

Donax venusta, Poli.

Donax longa, Bronn.

Donax biradiata and sexradiata, Wood.

Hab. European Scas.

Of stout, oblong, rather solid growth, sometimes plain, sometimes rayed.

Species 24. (Mus. Cuming.)

Donax contusa. Don. lestá elongalo-oblongá, substexuosá, obsolete radiatim sulcalá, sulcis numerosis, versus umbones evanidis; fulvescente-albá, umbonibus rufescentibus, pallide radiatis; umbonibus subcentralibus; latere antico rolundato, postico obtuse flexuoso-rostrato, vix truncato.

THE BRUISED DONAX. Shell clongately oblong, rather flexuous, obsoletely radiately grooved, grooves numerous, fading towards the umboes; fulvous white, umboes reddish, pale-rayed; umboes nearly central, anterior side rounded, posterior obtusely flexuously beaked, scarcely truncated.

Hab. Mazatlan, Gulf of California.

Of an oblong bean-shaped form, scarcely truncated on the posterior side, with the umboes nearly central, and peculiarly white-rayed on a purple-red ground.

Species 25. (Mus. Cuming.)

Donax semistriata. Don. testá subtrigono-oblongá, medio gibbosú, radiatim lineari-sulcatá, striis concentricis sub latus posticum decussatá; albidá, pallidè carneá obscurè radiatá, epidermide fulvescente corneá versus marginem indutá; latere antico subacuminato-rotundato, postico subflexuoso, obtusè declivi-angulato.

THE HALF-STRIATED DONAX. Shell somewhat triangularly oblong, gibbous in the middle, radiately linearly grooved, decussated with concentric strize on the posterior side; whitish, obscurely rayed with pale flesh, covered towards the margin with a fulvous horny epidermis; anterior side somewhat acuminately rounded, posterior subflexuous, obtusely slantingly angled.

Poli, Test. Sicilize, pl. 3. f. 12.

Donax fabagella, Lamarck.

Hab. Mediterranean.

The posterior side of this species is decussated by a row of concentric grooved striæ.

Donax , Pl. V















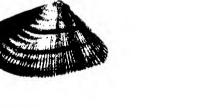








PLATE V

Species 26. (Rig. a, b, c, Mus. Cuming)

DONAX BADIANS. Don. testă trigono-ovală, voluțuneulă, compressă, transversim striată, varid colerată, nunc plumbeă, alba lentiginosă, nunc lutescente albă, ruforadiută, inaquilaterali, latere postico brevi, declivi; antico acuminato-rotundato.

THE RAYED DONAX. Shell triangularly orate, rather solid, compressed, transversely striated, variously coloured, sometimes lead-coloured, freekled with white, sometimes yellowish-white, rayed with red, inequilateral, posterior side short and slanting, anterior acuminately rounded.

LAMARCK, Anim. sons vert. (Deshayes' edit.) vol. vi. p. 241.

Hub. Philippine Islands; Cuming.

I have not given to this species the name of *D. faba*, Chemnitz, because the figure in the 'Conchylien Cabinet,' vol. vi. pl. 26. f. 267, has not the triangular form characteristic of it. Lamarck has quoted that as a synonyme in error.

Species 27. (Mus. Cuming.)

Donax Lamarckii. Don. testá oblongo-ovatá, solidiusculá, gibbosá, radiatim undique densè liratá, carneolutescente, latere antico lanceoluto-rotundato, postico lutè declici-trancoto.

LAMARCK'S DONAX. Shell oblong-ovate, rather solid, gibbous, everywhere densely ridged, flesh-finged yellow, anterior side lanceolately rounded, posterior broadly slantingly truncated.

DESHAYES, MSS. Mus. Cuming.

A rather gibbous solid species, distinctly closely ridged throughout in rays from the umboes.

Species 28. (Fig. a, b, Mus. Cuming.)

Donax Bicolor. Don. testá ovato-cuneatá, compressiusculá, concentrice striatá, striis posticis obsoleté crispatogranulatis, striis exiguis radiantious decussatis, varie coloratá, nunc rosaceá, nunc albidá, Aumbeo radiatá, latere antico rotundato, postico compresse obtuse angulato.

THE TWO-COLOURED. DONAX. Shell ovately wedge-shaped, rather compressed, concentrically striated,

the posterior striæ obsoletely crisply granulated, decussated with very fine raised striæ, variously coloured, sometimes rose-tinted, sometimes whitish, rayed with lead-colour, anterior side rounded, posteriorly compressly obtusely angled.

LAMAROK, Anim. sans vert. (Deshayes' cdit.) vol. vi. p. 243. Hab. Island of Negros, Philippines; Cuming.

Chiefly distinguished by its broad compressly ovate form, and by the slight obtusely angled growth of the posterior side. In colour it is one of the most variable species of the genus.

Species 29. (Mus. Cuming.)

Donax Connadi. Don: testa elongato-ovata, gibbosiuscula, ad marginem compressa, lavigata, radiatim crebrisulcata, sulcis linearibus, liris intermediis posticis
minule serratis; albida, cinereo-fasciata; umbonibus
purpureis, albo maculatis; lunula areaque postica cinereo-purpureis, latere antico elongato-rotundato, -catico subconcavo-trumato.

CONNAD'S DONAX. Shell elongately ovate, rather gibbous, compressed at the margin, smooth, radiately closely grooved, grooves linear, the posterior intermediate ridges minutely serrated; whitish, ashbanded; umboes purple, white-tipped; lunule and posterior area ash-purple, anterior side clongately rounded, posterior rather concavely truncated.

DESHAYES, Pro. Zool. Soc. March, 1854, Hab. Gulf of California.

An elegately oblong species, in which the posterior side has a slightly arched beaked growth.

Species 30. (Mus. Cuming.)

DONAX OBESULA. Don. testa abruptò cuneata, valdè gibbosa, radiatim densè tenuilirata, concentricè pulcherrimè tenuicancellata, lutescente, latere antico peculiariterincuminato, postico latè truncato.

THE STOUT DONAX. Shell abruptly wedge-shaped, very gibbous, radiately densely finely ridged, concentrically beautifully finely cancellated, yellowish, anterior side peculiarly acuminated, posterior broadly truncated.

DESHAYES, Pro. Zool. Soc. March, 1854.

Hab, Peru.

A gibbous shortly truncated shell, rapidly acuminated anteriorly, very finely cancellated throughout.

Species 31. (Mus. Cuming.)

Donax Lævigata. Don. testá rotundato-cuneatá, lævigatá, politá, striis obsoletè radiatá, lutescente-spadiceá, ad marginem cærulescente; umbonibus cærulescentibus, luteo maculatis; latere antico acuminato-rotundato, postico brevissimo, abruptè truncato.

THE SMOOTH DONAX. Shell rotundately wedge-shaped, smooth, polished, obsoletely rayed with striæ; yellowish-fawn, bluish at the margin; umboes bluish, yellow-tipped; anterior side acuminately rounded, posterior side very short, abruptly truncated.

DESHAYES, Pro. Zool. Soc. March, 1854. Hab. ——?

Distinguished by its polished obsing-rounded form, and very abruptly truncated posterior side.

Species 32. (Mus. Cuming.)

Donax sordida. Don. testá trigono-cuneatá, compressá, densissimè radiatim liratá, ad aream posticam decussatim crispato-serratá, sordidè albá, latere antico trigono-acuminato, postico acutè angulato, subconcavotruncato.

THE DIRTY DONAX. Shell triangularly wedge-shaped, compressed, very closely radiately ridged, on the posterior area decussately crisply serrated, dirty-white, anterior side triangularly acuminated, posterior sharply angled, and subconcavely truncated.

IIab. ---- ?

A very characteristic species, singularly resembling in its general contour the multivalve shell of the cirrhipede Anatifa lævis.

Donax, Pl. VI.



33























PLATE VI.

Species 33. (Mus. Cuming.)

l)onax acutangula. Don testá elongato-oblongá, curvatá, subensiformi, eburneá, lævigatá, nitente, sub lente striis tennissimis decussatá, valdè inæquilaterali, latere antico rotundato, postico acutè angulato, concavotruncato: areá subtilissimè fimbriato-striatá.

THE SHARP-ANGLED DONAX. Shell elongately oblong, curved, somewhat sword-shaped, ivory-white, smooth, shining, beneath the lens decussated with very fine strize, very inequilateral, anterior side rounded, posterior sharply angled, and concavely truncated; the area very finely fimbriately striated.

DESHAYES, Pro. Zool. Soc. March, 1854. Ilab. Mouth of the Gaboon, West Africa.

A very delicate subtransparent ensiform species, very abruptly angularly truncated at the posterior end, the anterior being very clongately produced.

Species 34. (Mus. Cuming.)

Donax nitida. Don. testá lanceolato-oblongá, subtriyoná, gibbosulá, lævigatá, nitente, eburneá, ad umbones obsoletè carneo biradiatá, latere antico acuminatoproducto, postico declivi-truncato, angulato; areá subconcuvá, concentricè corrugato-liratá.

THE SHINING DONAX. Shell lanceolately oblong, somewhat triangular, rather gibbous, smooth, shining, ivory-white, marked with two obsolete flesh-rays at the umboes, anterior side acuminately produced, posterior slantingly truncated, angled; area subconcave, concentrically wrinkle-ridged.

DESHAYES, Pro. Zool. Soc. March, 1854. Hab. East Australia; Strange.

Chiefly distinguished by its slantingly acuminated sides, and by the posterior area being conspicuously wrinkle-ridged, while the rest of the shell is smooth and highly polished.

Species 35. (Mus. Cuming.)

Donax Pulchella. Don testá elongato-oblongá, medio subcompressá, cinereo-alfá, griseo radiatá et fasciatá, concentrice striatá, obsolete radiatim sulcatá, latere antico subanguste acuminato, postico brevissimo, obtuse angulato et rotundato, margine crenato.

THE PRETTY DONAX. Shell elongately oblong, a little compressed in the middle, ash-white, banded and

rayed with grey, concentrically striated, obsoletely radiately grooved, anterior side rather narrowly acuminated, posterior very short, obtusely angled and rounded, margin crenated.

HANLEY, Pro. Zool. Soc. 1843, p. 6. IIab. West Indies.

A narrow oblong species, a little compressed in the middle, of a greyish-white, rayed and banded with blackish-grey.

Species 36. (Mus. Cuming.)

Donax transversa. Don testă anguste elongată, tenuiculă, gibbosă, utrinque hiante, lævigată, sub lente obsolete striată, lutescente-albă, olivaceo-carneo fasciată et latiradiată; umbonibus violaceo radiatis, valde inæquilaterali; latere antico recto, versus marginem declivi-rotundato, postico abrupte truncato, acute angulato, ad angulum carnato; area concuvă, tenuitirată.

THE TRANSVERSE DONAX. Shell narrowly elongated, rather thin, gibbous, gaping at each end, smooth, beneath the lens obsoletely striated, yellowish-white, banded and broadly rayed with olive-fiesh; umboes violet-rayed, very inequilateral; anterior side straight, slantingly rounded towards the margin, posterior abruptly truncated, sharply angled, keeled at the angle; area concave, finely ridged.

SOWERBY, Tankerville Catalogue, App. p. 4. no. 226. Hab. ——?

An extremely characteristic species, of straight clongated growth, gaping at both cuds, stained with violet in the interior.

Species 37. (Mas. Cuming.)

Donax Owenii. Don. testá elongato-ovatá, convexo-compressá, lævigatá, sub lente striis subtilissimè decussatá; albidá, lutescente versus marginem obscurè radiatá, umbonibus violaceo radiatis; latere antico acuminatorotundato, postico declivi-truncato, area concavá, concentricè corrugato-liratá.

Owen's Donax. Shell elongately ovate, convexly compressed, smooth, beneath the lens very finely decussately striated; whitish, obscurely rayed with yellow towards the margin, umboes rayed with violet; anterior side acuminately rounded, posterior slantingly truncated; area concave, concentrically wrinkle-ridged.

GRAY, MS. in Brit. Mus.; Hanley, Cat. Recent Shells, p. 81.

Ilab. West Coast of Africa.

Of convexly elongated growth, obtusely angled at the posterior end, where the area, unlike the rest of the shell, is closely wrinkle-ridged.

Species 38. (Mus. Cuming.)

Donax gracilis. Don. testá trigono-elongatá, ad marginem archatá et compressá, versus umbones gibbosá, lævigatá, epidermide sordide olivaceá corneá indulá; latere antico rotundato, subrostrato, postico declivitruncato, obtuse angulato.

The Slender Donax. Shell triangularly elongated, arched and compressed at the margin, gibbons towards the umboes, smooth, covered with a dull olivaceous horny epidermis; anterior side rounded, slightly beaked, posterior slantingly truncated, obtusely angled.

HANLEY, MS. (Mus. Cuming.) Hab. Gulf of Guayaquil; Cuming.

A smooth species, having somewhat the appearance of a narrow elongated Copsa.

Species 39. (Mus. Cuming.)

Donax Scalpellum. Don. testá anguste elongatá, rectá, subcompressá, utrinque paululum hiante, lævigatá, politá, albidá, livido-purpurascente radiatá et pallide tinctá, valde inæquilaterali; latere antico rotundato, postico declivi-truncato; areá subconcavá, nilide concentrice liratá.

The lancet Donax. Shell narrowly elongated, straight, rather compressed, a little gaping at both ends, smooth, polished; whitish, rayed and faintly tinged with livid purple, very inequilateral; anterior side rounded, posterior slantingly truncated, area rather hollow, neatly concentrically ridged.

Gray, Annals of Philosophy; and Wood, Index Testaceologicus, Supp. pl. 2. f. 1.

Hab. Gulf of California.

Of a peculiar straight Solen-like growth, smooth and highly polished, except on the posterior area, which is neatly concentrically ridged.

Species 40. (Mus Cuming.)

Donax Californica. Don. testá oblongo-ovatá, subcurvatá, griseo-albá, nigricante-cæruleo fasciatá et latiradiatá, radiatim obsoletè dense sulcatá, umbonibus

violaceo eximiè biradiatis; subæquilaterali, luteribus rolundatis, postico vix angulato.

THE CALIFORNIAN DONAX. Shell oblong-ovate, somewhat curved, greyish-white, banded and broad-rayed with blackish-blue, radiately obsoletely densely grooved, umboes marked with two small violet rays; nearly equilateral, sides rounded, the posterior scarcely angled.

CONRAD, Journ. Acad. Nat. Sci. Philadelphia, vol. vii., pl. 19. f. 21.

Hab. Gulf of California.

This species, wanting the posterior truncated area so characteristic of the genus, has more the form of a Telling.

Species 41. (Mus. Cuming.)

Donax Bella. Don. lestá oblongo-ovatá, subtrigoná, postice gibbosá, lævigatá, nitente, obsolete dense sukatoradiatá, eburneá, radiis angustis roseis ornatá; latere antico rotundato, postico declivi-truncato, vix angulato.

THE NEAT DONAX. Shell oblong-ovate, somewhat triangular, gibbous posteriorly, smooth, shining, obsoletely densely groove-rayed, ivory-white, ornamented with narrow pink rays; anterior side rounded, posterior slantingly truncated, scarcely angled.

DESHAYES, Pro. Zool. Soc. March, 1854.

Hab. Acapulco.

A delicately painted species, rather swollen towards the posterior side, and truncated obtusely.

Species 42. (Mus. Cuming.)

Donax Polita. Don testá anguste oblongo-ovatá, complanatá, spadiceo-fuscescente undique tinctá, et pallide lentiginosá et fasciatá, subæquilaterali; lateribus rotundatis, postico sub umbones paululum truncato.

THE POLISHED DONAX. Shell narrowly oblong-ovate, smooth, everywhere stained with fawn-brown, and faintly freekled and banded, nearly equilateral; sides rounded, posterior slightly truncated beneath the umboes.

Pol.i, Test. Siciliæ, pl. 21. f. 14, 15.

Psammobia polita, Da Costa.

Donax complanatus, Montagu.

Capsa complanata, Sowerby.

Donax longa, Philippi.

Hab. Mediterranean and South Britain.

This species partakes so much of the form and of Cytherea, as hardly to come into the present that has been referred both to Capita and Proposition.

Donax, Pl. VII.



























PLATE VII.

Species 43. (Mus. Cuming.)

Donax Ghanifeha. Don. testă trigono-ovată, solidiusculă, gibbosă, creberrime radiatim lineari-sulcată, postice dense corrugato-granosă, albidă, umbonibus violaceo remote biradiatis; latere antico acuminato-rotundato, postico brevissimo, abrupte angulato-truncato.

THE GRAINED DONAX. Shell triangularly ovate, rather solid, gibbous, very closely radiately linearly grooved, posteriorly densely wrinkle-grained, white, umboes distantly two-rayed with violet; anterior side acuminately rounded, posterior very short, and abruptly angularly truncated.

DESHAYES, Pro. Zool. Soc. March, 1854.

A stout white broadly triangular species, very abruptly angularly truncated.

Species 44. (Mus. Cuming.)

Monax venusta. Don. testa oblongo-ovata, subtrigona, compressa, lævigata, polita, posticè concentricè semi-sulcata, pallidè rosoceo-spadicea, albiradiata; latere antico rotundato, postico obtusè declivi-angulato; area concentricè sulcata.

THE HANDSOME DONAX. Shell clongately ovate, subtriangular, compressed, smooth, polished, posteriorly concentrically half-grooved, pale rose-fawn, whiterayed; anterior side rounded, posterior obtusely slantingly angled; area concentrically grooved.

Poll, Test. utr. Siciliæ, pl. 19. f. 23, 24. Hab. Mediterranean.

A polished shell, distinguished in all its varieties by a few concentric grooves on the posterior side, near the ventral margin.

Species 45. (Mus. Cuming.)

Donax variegata. Don. testá subelongato-oblongá, compressiusculá, lævigatá, politá, albidá, aurantio-tinctá, fusco nilide radiatim reticulatá; latere untico subacuminato-rotundato, postico brevi, obtuse declivi-angulato.

THE VARIEGATED DONAX. Shell subelongately oblong, rather compressed, smooth, polished, whitish, stained

with orange, neatly radiately reticulated with brown; anterior side rather acuminately rounded, posterior short, obtusely slantingly angled.

Hab. ---- 9

A small polished compressed species, distinguished by its orange-fawn colour, and pretty radiately reticulated painting.

Species 46. (Mus. Cuming.)

Donax lubrica. Don, testá sublate trigoná, compressá, concentrice irregulariter striatá, postice radiatim lineari-sulcatá, cinerascente, saturate fasciatá; latere antico rotundato, postico brevissimo, obtuse truncato.

THE SLIMY DONAX. Shell rather broadly triangular, compressed, concentrically irregularly striated, posteriorly linearly radiately grooved, pale ash, darker banded; anterior side rounded, posterior very short, obtusely truncated.

HANLEY, MS. (Mus. Cuming.)

Hab. ——?

Of a broadly triangular form, with an extremely contracted posterior side, compressed throughout.

Species 47. (Fig. a, b, Mus. Cuming.)

Donax variabilis. Don. testă trigono-oblongă, subangustă, radiatim lineari-sulcată, lutescente aut albidă aut varie roseo-radiată; latere antico acuminato-rotundato, postico lato, brevissimo, acute angulato.

THE VARIABLE DONAX. Shell triangularly oblong, rather narrow, radiately linearly grooved, yellowish or white, or variously pink-rayed; anterior side acuminately rounded, posterior broad, very short, sharply angled.

SAY, American Conchology, pl. 61. f. 1.

Hab. United States.

Chiefly distinguished by its pinched acuminately rounded anterior end.

Species 48. (Mus. Cuming.) .

DONAX DENTICULATA. Don. testá trigono-cuneatá, crassiusculá, dense lineari-sulcatá, albidá, rufo et griseo varie radiatá, interdum aurantiá; latere antico subattenuato-rolundato, postico gibboso, biangulato; areâ interna corrugată.

THE SMALL-TOOTHED DONAX. Shell triangularly wedgeshaped, rather thick, densely linearly grooved, whitish, variously red and grey rayed, sometimes orange; anterior side somewhat attenuately rounded, posterior side gibbous, two-angled; inner area wrinkled.

LINNÆUS, Syst. Nat. (12th edit.) p. 1127. Hab. West Indies.

A rather stout solid species, strongly linearly grooved throughout, double-angled on the posterior side, the area of the inner angle being wave-wrinkled. Species 49. (Mus. Cuming.)

DONAX OBESA. Don. testá abbreviato-trigond, gibbosá, obesá, radiatim tenuè lineari-sulcatá, sulcis minutissimè decussatis, latere antico subacuminato, postico obtusè globoso-truncato, albá, posticè griseo-tinctá.

THE STOUT DONAX. Shell shortly triangular, gibbous, stout, radiately finely linearly grooved, grooves very minutely decussated, anterior side subacuminated, posterior obtusely globosely truncated, white, posteriorly stained with grey.

D'Orbieny, Voy. dans l'Amérique Méridionale. Hab. Real Llejos, Central America; Cuming.

A small species, of peculiarly short stout swollen growth.













awalay deletirith











PLATE VIII.

Species 50. (Mus. Cuming.)

Donax Madagasoariensis. Don. testa abbreviato-triangulari, peculiariter diagonaliter undato-costată, latere postico abrupte plano-angulato, interstitiis arew cancellatis, antico compresse angulato-acuminato; alhidă, epidermide fulvă indută.

THE MADAGASCAR DONAX. Shell shortly triangular, peculiarly diagonally wave-ribbed, posterior side abruptly flatly angled, interstices of the area caucellated, anterior compressly angularly acuminated; whitish, covered with a fulvous epidermis.

Wood, Index Testaceologicus, Supp. Donax, fig. 3. Donax Keyi, A. Adams.

Hab. Madagascar.

Peculiarly characterized by a sculpture of diagonally cross-waved ribs.

Species 51. (Mus. Cuming.)

Donax petallina. Don testá subanguste oblongá, tenui, semipellucidá, subæquilaterali, minutissime radialim striatá, pellucido-albá, purpurascente late biradiatá; lateribus rotundatis, subæqualibus, postico latiore; umbonibus parvis, subcentralibus.

THE LITTLE PETAL DONAX. Shell rather narrowly oblong, thin, semitransparent, nearly equilateral, very minutely radiately striated, transparent-white, broadly two-rayed with light purple; sides rounded, nearly equal, posterior the broader; umboes small, nearly central.

DESNAYES, Pro. Zool. Soc. March, 1854.

 Λ very delicate subtransparent shell, marked with two broad rays of light purple, with the sides nearly equal.

Species 52. (Mus. Cuming.)

Donax Anea. Don testá angustà oblongá, striis sub lente minutissimà decussatá, sordidà albá, obscurè biradiatá, eximià iridescente; latere antico acuminato-rotundato, postico obtuse declivi-angulato.

THE BRASS DONAX. Shell narrowly oblong, beneath the lens very minutely decussated with strice; dirty-white, faintly two-rayed, delicately iridescent; an-

terior side acuminately rounded, posterior obtusely slantingly angled.

Morcπ, Kierulf Cat.; Deshayes, Pro. Zool. Soc. March, 1854.

Hab. ---- ?

A minute dull white shell, apparently smooth, but decussated beneath the lens with fine strice and delicately iridescent.

Species 53. (Mus. Cuming.)

Donax incarnata. Don. testá latissimè trigoná, solidiusculá, compressá, obscurè radiatim sulcatá, posticè conspicuè undato-corrugatá, interstitiis cancellatis; lutescente-incarnatá; latere antico subacuminato, postico brevissimo, obtusè angulato.

THE FLESH-TINTED DONAX. Shell very broadly triangular, rather solid, compressed, obscurely radiately grooved, posteriorly conspicuously wave-wrinkled, with the interstices cancellated; yellowish flesh-tinged; anterior side subacuminated, posterior very short, obtusely angled.

Спемнтz, Conch. Cab. vol. vi. p. 265. pl. 26. f. 259. Hab. ——?

Of a particularly broadly angled form, the umboes seeming unusually elevated, with the obtuse posterior angle strongly diagonally wave-wrinkled.

Species 54. (Mus. Cuming.)

Donax Dysoni. Don. testă trigono-cuneulă, minutissine decussatim striată, postice fortiter concentrice lirută, interstitiis cancellatis; albidă, ad umbones livido-purpurascente radiată; latere antico rotundato, postico brevissimo, viz angulato.

DYSON'S DONAX. Shell triangularly wedge-shaped, very minutely decussately striated, posteriorly strongly concentrically ridged, with the interstices cancellated; whitish, rayed at the umboes with livid purple; anterior side rounded, posterior very short, scarcely anterior.

DESHAYES, Pro. Zool. Soc. March, 1854.

Hab. Indian Seas.

Allied in general plan of sculpture to the preceding

species, in that the well-defined posterior ridges are not wrinkled.

Species 55. (Mus. Cuming.)

Donax paxillus. Don. testá elongato-cuneatá, lævigatá, obscure radiatim sulvatá; albidá, livido-tinctá; latere antico acuminato-rotundato, postico brevissimo, latiusculo, abrupte angulato-truncato, ad angulum crenulato; areá subtilissime granoso-decussatá.

THE LITTLE PEG DONAX. Shell elongately wedge-shaped, smooth, obscurely radiately grooved; whitish, livid stained; anterior side acuminately rounded, posterior very short, rather wide, abruptly angularly truncated, crenulated at the angle; area finely granosely decussated.

Hab. Ceylon.

Of a somewhat sharply clongated wedge-shape, crenulated on the abrupt posterior angle.

Species 56. (Mus. Cuming.)

DONAX SEMISULCATA. Don. testă abbreviato-cuneiformi, solidiusculă, lutescente, anticè levigată, polită, postice lirato-clathrată; latere antico acuminato-rolundato, postico brevissimo abruptè concavo-truncato, acutè crenato-angulato; areă nitidissimè granato-lirată.

THE HALF-GROOVED DONAX. Shell shortly wedge-shaped, rather solid, yellowish, anteriorly smooth, polished, posteriorly conspicuously ridge-latticed; anterior side acuminately rounded, posterior very short, abruptly concavely truncated, sharply crenately angled; area very neatly grain-ridged.

HANLEY, Pro. Zool. Soc. 1843, p. 5. Hab. East Africa.

Of a sharply angled wedge-form, beautifully lattice-sculptured on the posterior side.

Species 57. (Mus. Cuming.)

Donax clathrata. Don. testá oblongo-cuneatá, gibbosulá, albidá, undique pulcherrimè granoso-clathralá; latere antico rotundato, postico brevissimo, latiusculo, abruptè truncato, ad angulum bicarinato.

THE LATTICED DONAX. Shell oblong, wedge-shaped, rather gibbous, whitish, beautifully grain-latticed throughout; anterior side rounded, posterior very short, rather broad, abruptly truncated, two-keeled at the angle.

DESHAYES, Pro. Zool. Sec. March, 1854.

Hab. ---- ?

Delicately grain-latticed throughout, with two characteristic though slight keels on the posterior angles.

Species 58. (Mus. Cuming.)

DONAX ACUMINATA. Don. testá acuté angulato-cuneatá, medio gibbosinsculá, dense radiatim sulcatá; albidá, latere antico acuminato, postico acuté declivi-angulato, latinsculo.

THE ACUMINATED DONAX. Shell sharply angularly wedge-shaped, rather gibbous in the middle, densely radiately grooved; whitish, anterior side acuminated, posterior sharply slantingly angled, rather broad.

DESHAYES, Pro. Zool. Soc. March, 1854.

Hub. — ?

Chiefly distinguished by the anterior side being more than usually attenuated and acuminated.

Species 59. (Mus. Cuming.)

Donax Nuculoides. Don. testá subquadrato-ovatá, pluno-convexá, solidiusculá; albidá, epidermide corneá cinereá nitente indutá; lateribus rolundatis, postivo breviore, vix truncato.

THE NUCULA-LIKE DONAX. Shell somewhat squarely ovate, flatly convex, rather solid; white, covered with a shining horny-ash epidermis; sides rounded, posterior the shorter, scarcely truncated.

Hab. Bodegas, California; Hinds.

Of very distinct typical character from any other species of the genus, flatly convex, covered with a shining horny epidermis, and having somewhat of the external aspect of Nucula.



Donax, Pl.IX.





























PLATE IX.

Species 60. (Mus. Hanley.)

Donax Saxulum. Don. testá suboblongo-trigoná, compressá, solidiusculá, radiatim lirato-striatá, albidá, nitente, versus marginem epidermide corneá stramineá indutá, latere postico declivi-angulato, antico longiore, rotundato.

THE LITTLE STONE DONAX. Shell somewhat oblong triangular, compressed, rather solid, radiately ridge-striated, whitish, shining, covered towards the margin with a straw-coloured horny epidermis, posterior side slantingly angular, interior longer, rounded.

Idah.——?

A whitish shining shell, although rayed throughout with ridge-like striæ, rather compressed, with the posterior side more angularly slanting than usual.

Species 61. (Mus. Hanley.)

Donax incerata. Don. testá oblique trigoná, subcurvatá, concentrice leviter striatá, striis radiantibus obsoletis decussatá, subpellucido-albá, carneo-roseo tinctá, latere postico abrupte rotundato, antico acuminato-rotundato.

THE WAXEN DONAX. Shell obliquely triangular, slightly curved, concentrically faintly striated, decussated with obsolete radiating striæ, semitransparent white, tinged with flesh-rose, posterior side abruptly rounded, anterior acuminately rounded.

Hab. --- ?

This odd valve, from Mr. Hanley's collection, is not to be identified with any previously described species of the genus. It is of a subtransparent shining white texture, delicately tinged with flesh-rose, obsoletely decussately striated, and is equally characteristic in outline.

Species 62. (Mus. Cuming.)

Donax obscura. Don. testá trigono-ovatá, subcompressá, concentrice minutissime dense striatá, calcareo-albá, latere postico truncato-rotundato, antico longiore, rotundato.

THE OBSCURE DONAX. Shell triangularly ovate, rather compressed, concentrically very minutely closely striated, chalk-white, posterior side truncately rounded, anterior rather longer, rounded.

Hab. ____ P

An opake-white species, very closely minutely concentrically striated, with the side not particularly unequal.

Fig. 63. (Mus. Hanley.)

This shell, from Mr. Hanley's collection, named D. Panamensis, Philippi, in the author's own handwriting, proves to be a variety of D. Cayennensis.

Species 64. (Mus. Hanley.)

Donax Meta. Don. testá abbreviato-conicá, solidiusculá, radiatim lirato-striatá, lutescente-albá, intus vitelliná, latere postico lato, tumidiusculo, acutè angulato-truncato, areá posticá eximiè corrugatá et striatá, latere antico subcontracto, acuminato-rotundato.

THE CONE DONAX. Shell shortly triangular, rather solid, radiately ridge-striated, yellowish-white, interior yolk-yellow, posterior side broad and rather swollen, sharply angularly truncated, the posterior area delicately wrinkled and striated, anterior side rather contracted, acuminately rounded.

Hab. --- ?

Of this species we have but an odd valve, broadly angularly truncated and a little swollen on the posterior side, the anterior being rather contracted and acuminately rounded.

Species 65. (Mus. Hanley.)

Donax intromadiata. Don. lestá trigono-ovatá, radiatim dense sulcato-striatá, griseo-violuceá, pallide violaceo biradiatá, radiis intus intense violaceis, latere postico brevissimo, lato, gibboso, ad angulum funiculato, ad aream densissime corrugato et striato, latere antico gradatim compresso-acuminato.

THE INWARDLY-RAYED DONAX. Shell triangularly ovate, radiately closely groove-striated, greyish-violet, marked with two faint violet rays, the rays deep violet in the interior, posterior side very short, broad, raised into a cord at the angle, very closely wrinkled and striated on the area, anterior side gradually compressly acuminated.

Hab. ---- ?

A characteristic species, painted with two deep violet internal rays faintly indicated without, broady gibbous

on the posterior side, with the edge raised into a cord, and compressly acuminated anteriorly.

Species 66. (Mus. Hanley.)

DONAX VELLICATA. Don. lesta subelongato-ohlonga, radiatim densè sulcato-striata, griseo-alba, ad umbones purpurascente, albo minutè biradiata, latere postico abruptè truncato, ad marginem contracto, latere untico rotundato.

THE NIPPED DONAX. Shell rather elongately oblong, radiately closely groove-striated, greyish-white, purplish at the umboes, and minutely two-rayed with white, posterior sale abruptly truncated, contracted at the margin, anterior side rounded.

Hab. --- ?

A rather solid clongately oblong species, somewhat bluntly slopingly truncated at the posterior end, which towards the ventral margin is peculiarly contracted or pinched.

Species 67. (Mus. Hanley.)

Donax spiculum. Don. testă lanceolato-oblongă, angustă, radiatim tenuiter sulcato-striată, carneo-fulvescente, epidermide corneă flavicante juxta marginem indută, latere postico brevissimo, obluse angulato, antico lanceolato-rolundato.

THE LITTLE BOLT DONAX. Shell lanceolately oblong,

narrow, radiately finely groove-striated, flesh-tinged fulvous, covered next the margin with a yellowish horny epidermis, posterior side very short, obtusely angled, anterior lanceolately rounded.

IIab. ---- ?

Of this species, also from Mr. Hanley's collection, there is but a single valve. It is of a peculiarly lanceolate form, of a very short abrupt growth posteriorly.

Species 68. (Mus. Hanley.)

Donax bitincta. Don. lestă trigono-oblongă, subcurvată, versus marginem compressă, radiatim tenuiter sulcatostriată, albidă, radio lato roseo-purpurascente pictă, latere postico declivi-angulato, areă subconcavă, medio elevată, roseo-purpurascente, latere antico compressorotundato.

THE DOUBLE-STAINED DONAX. Shell triangularly oblong, slightly curved, compressed towards the margin, radiately finely groove-striated, whitish, painted with a broad rose-purple ray, posterior side slopingly angled, area subconcave, raised in the middle, rosepurple, anterior side compressly rounded.

Hab. — ₹

Of an oblong curved form, with the posterior area gently angularly sloping, rather concavely raised, and stained in a characteristic manner with rose-purple, of which colour there is a single broad ray in the middle of each valve.

**	Plate VIII	Species	luma min Dilliani	l'inte	Specie
ænea, Morch.	VIII.	52	lunularis, Philippi	IV.	20
acuminata, Deshayes	VIII.	58	Madagascariensis, Wood	VIII.	50
acutangula, Deshayes	VI.	33	mcta, Reeve	IX.	64
anatinus, Lam	IV.	19	navicula, Hanley	IV.	18
asper, Hanley	II.	12	nitida, Deshayes	VI.	34
assimilis, Hanley	II.	10	Nuculoides, Reeve	VIII.	59
hella, Deshayes	VI.	41	obesa, D'Orb.	VII.	49
bicolor, Lam	V .	28	obesula, Deshayes	V .	30
hitincta, Reeve	IX.	68	obscura, Reeve	IX.	62
Californica, Conrad	VI.	40	ovalina, Deshayes	Ш.	17
carinata, Hanley	II.	11	Owenii, Gray	V1.	37
Cayennensis, Lam	IV.	22	paxillus, Reeve	VIII.	55
clathrata, Deshayes	VIII.	5 7	petallina, Deshayes	VIII.	51
columbella, Lam	III.	14	polita, Poli	VI.	42
complanatus, Mont	VI.	42	pubescens, Linn	١.	1
compressa, Lam	II.	8	pulchella, Hanley	VI.	35
Conradi, Deshayes	V .	29	punctato-striata, Hanley	III.	16
contusa, Reeve	IV.	24	radians, Iam	V.	26
culter, Hanley	IV.	21	ringens, Lam	I.	5
cuneata, Linn	III.	15	ruber, Turton	IV	19
deltoides, Lam	1.	4	rugosa, Linn	II.	. 9
denticulata, Linn	VII.	48	saxulum, Reeve	IX.	60
dentifera, Hanley	I.	2	scapellum, Gray	VI.	39
Dysoni, Deshayes	VIII.	54	scortum, Linn	J.	1
epimerdia, Lam	I.	4	semistriata, Poli	IV.	25
faba, Chemn	V.	26	semisulcata, IIanley	VIII.	56
fabagella, Lam	IV.	25	serra, Chemn	I.	5
gracilis, Hanley	VI.	38	sordida, Reeve	٧.	32
granifera, Deshayes	VII.	43	spiculum, Reeve	IX.	67
Hanleyana, Philippi	II.	6	Ticaonica, Hanley	III.	18
incarnata, Chemn.	VIII.	53	transversa, Sow	VI.	36
incerata, Reeve	IX.	61	trifasciata, Reeve	II.	7
introradiata, Reeve	IX.	65	trunculus, Auct	IV.	19
Keyi, Adams	VIII.	50	trunculus, Linn.	ſV.	23
Lamarckii, Deshayes	V.	27	variabilis, Say	VII.	47
lævigata, Deshayes	v.	31	variegata, Reeve	VII.	45
longa, Philippi	VI.	42	vellicata, Reeve	IX.	66
lubrica, Hanley	VII.	46	venusta, Poli	VII.	44

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MONOGRAPH

OF THE GENUS

PATELLA.

"At distance viewed, it seems to lie
On its rough bed so carelessly,
That 'twould an infant hand obey,
Stretched forth to seize it in his play.
But let that infant's hand draw near,
It shrinks with quick instinctive fear,
And clings as close, as though the stone
It rests upon, and it, were one;
And should the strongest arm endeavour.
The Limpet from its rock to sever,
"Tis seen its loved support to clasp,
With such tenacity of grasp,
We wonder that such strength should dwell
In such a small and simple shell."—Wordsworth.



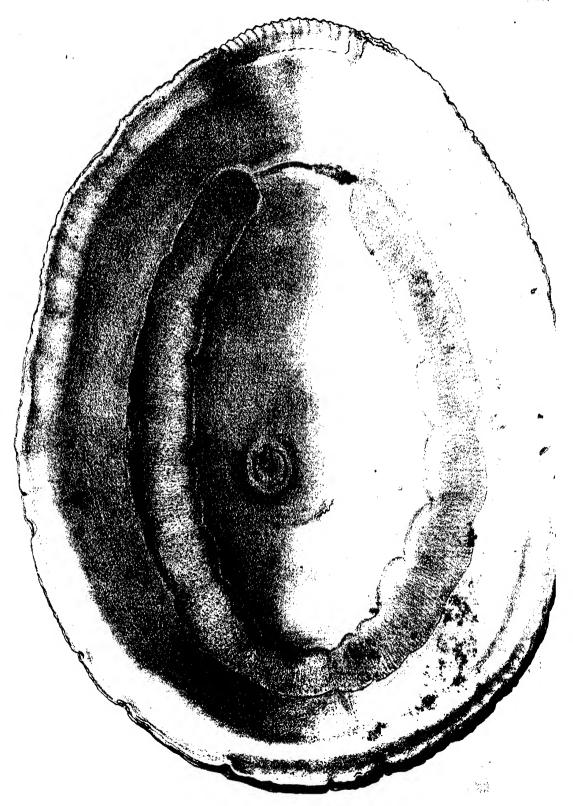


PLATE 1.

Genus PATELLA, Linnœus.

Testa ovatu, plus minus convexa, patellæformi, non spiralis, apice interdum centrali, plerumque plus minus anticè inclinato, sæpissimè radiatim costata vel lirata, interdum squamata, margine plerumque crenulata; impressio muscularis elliptica, anticè interrupta.

Shell ovate or rounded, more or less convex, dish-shaped, not spiral, apex sometimes central, generally more or less inclined anteriorly, mostly radiately ribbed or ridged, sometimes scaly, generally crenulated at the margin; muscular impression elliptical, interrupted anteriorly.

The Limpets, properly so called, have been collected together under the generic title of Patella, from the resemblance of their shell to the form of a dish of that name, formerly used by the Latins for carrying meat in their sacrifices. In structure it is the most simple of all shells, being an unconvoluted shield, covering the soft parts of the animal, more or less raised in convexity, not spiral, inclining to an apex, rarely more than superficially developed, but sometimes bent over anteriorly into a minute hook. From this apex radiate striæ, ridges, or ribs, which are sometimes scaled, and have the interstices sometimes wrought into lattice work by concentric ridges. It is only very rarely, however, that the shell is so sculptured, the ribs or ridges being for the most part smooth, though presenting abundant characteristic varieties of form and distribution. The painting of the Patellæ is also exceedingly varied; the revailing pattern consisting of rays, modified by various causes to a degree which renders the different states of a species often extremely difficult of identification.

The Patellæ inhabit all latitudes, ranging from the Equator to the Arctic Seas, where the P. testudinalis has been found by Sir Edward Belcher in Wellington Channel, the most northern limit of animal life; and they are everywhere abundant in their kind. Some of the finest species are found about the Cape of Good Hope.

Species 1. (Mus. Cuming.)

PATELLA MEXICANA. Pat. testá oblongo-oratá, anticè uttenualá, medio subacutè convexá, versus marginem planatá, radiatim costatá, costis subcompressis, rudibus.
irregularibus, plus minus obsoletis, liris intermediis
scabrosis in testá juniore; luteo-albá, hic illic pallidissimè ferrugineo-tinctá, intus pallidissimè furrugineo
tinctá.

THE MEXICAN LIMPET. Shell oblong-ovate, attenuated in front, rather sharply convex in the middle, flattened towards the margin, radiately ribbed, ribs rather compressed, rude, irregular, more or less obsolete, with intermediate scabrous ridges in the young shell; yellowish-white, here and there very faintly rust-tinged, and very faintly rust-tinged within.

BRODERIP and SOWERBY, Zool. Journ. vol. iv. p. 369. Hab. Acapulco; Cuming. Mazatlan; Carpenter.

This fine species, the largest, in an eminent degree, of the genus, is of a sharply convex form, flattened towards the margin, distinguished exteriorly by a series of irregular radiating ribs, which soon become obsolete as the shell advances in growth. It is, within and without, of a uniform white, tinged with rust.



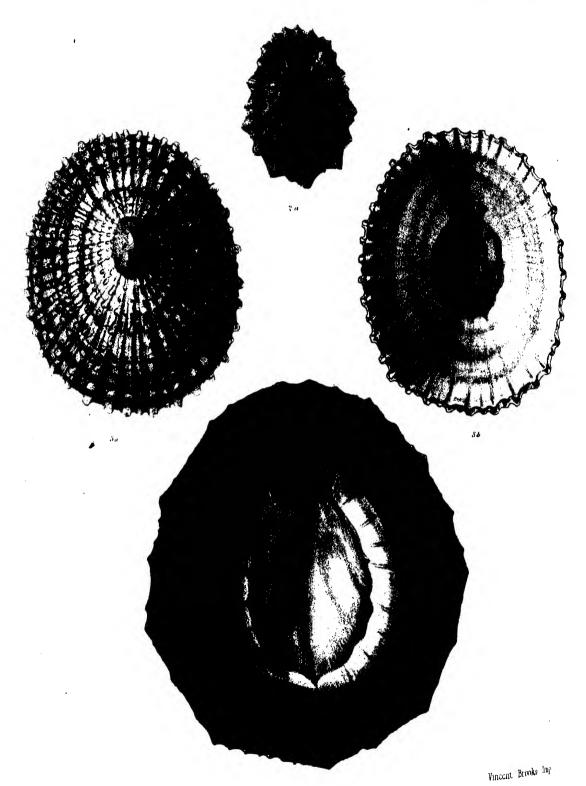


PLATE II.

Species 2. (Fig. a, b, Mus. Cuming.)

PATELLA OCULUS. Pat. testá suborbiculari-ovatá, convexinsculá, radiatim costatá et striatá, costis in testá juniore crenulatis, duodecim latioribus majoribus; lutescente, nigro variegatá, coloribus ætate evanescentibus, intus prope marginem intensè nigro-brunueá, deinde æneo-castaneá, deinde opaco-cærulescente, nucleo fuscescente-vitellino.

THE EYE LIMPET. Shell somewhat orbicularly ovate, moderately convex, radiately ribbed and striated, ribs in the young shell crenulated, twelve broader and larger; yellowish, variegated with black, the colours fading with age, interior deep black-brown near the margin, then bronze-chestnut, then light opake-blue, with a brownish-yelk nucleus.

BORN, Mus. Test. Vindobonensis, p. 418. Hab. Cape of Good Hope.

The rich eye-like colouring of the interior of this species is always a characteristic feature.

Species 3. (Fig. a, b, Mus. Cuming.)

Patella nigrisquamata. Pat. lestá ovatá, erecto-conicá, altá, radiatim costatá, costis ad quadraginta, fortiter nodoso-squamatis; flavicante, squamis rersus apicem hic illic nigris, intus flavicante-albá, uncleo rufescente-fusco, centro lacteo.

THE BLACK-SCALED LIMPET. Shell ovate, erectly conical, high, radiately ribbed, ribs about forty, strongly nodosely scaled; yellowish, scales towards the apex here and there black, interior yellowish-white, with a reddish-brown nucleus, with the centre milk-white. Hab. Australia.

A very characteristic elevately conical species, sculptured with about forty prominently nodule-scaled ribs, which are rather irregular in their development. The ground-colour of the shell is a deep opake-yellow, and the nodules towards the apex more especially in the young are here and there deep cinder-black.



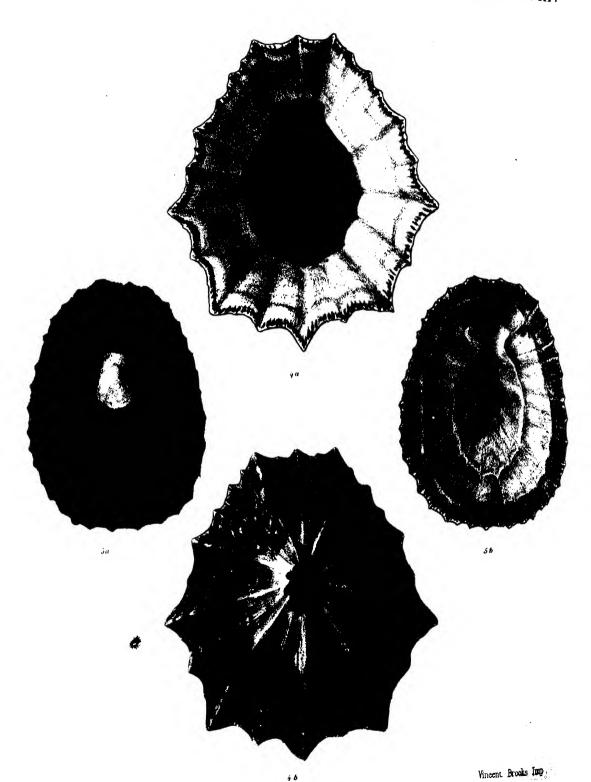


PLATE III.

Species 4. (Fig. a, b, Mus. Cuming.)

Patella Granatina. Pat. testă ovală, suboctagonă, antice coarclată, subelevată, radiatim fortiter costată, costis numerosis, subcrenulatis, octo plerumque majoribus, subaculis; cærulescente-albă, olivaceo-nigro profusă maculată, intus nucleo amplo purpureo-rufo.

THE GARNET LIMPET. Shell ovate, suboctagonal, contracted in front, rather raised, radiately strongly ribbed, ribs numerous, subcrenulated, eight generally larger, rather sharp; bluish-white, profusely spotted with ofive-black, interior with a large deep purplered nucleus.

LINNEUS, Syst. Nat. (12th edit.) p. 1258. Hab. Cape of Good Hope.

Distinguished by its mottled olive-black spots on the outside, and deep purple burnt-red nucleus inside. There is also, in young specimens, an appearance of crenulation both on the ribs and in the interstices. With age the ribs become sharper and the crenulation more obscure.

Species 5. (Fig. a, b, Mus. Cuming.)

Patella Plumbea. Pat. testá suboblongo-ovatá, ad latera anticè conretatá, convexiusculá, radialim costatá, costis numerosis, parvis, irregularibus, striis concentricis crenulatis; nigricante-plumbeá, costis saturatioribus, intus pallidè cærulescente-plumbeá, nucleo amplo, fuscescente-vitellino.

THE LEAD LIMPET. Shell somewhat oblong-ovate, contracted anteriorly at the sides, rather convex, radiately ribbed, ribs numerous, small, irregular, crenulated with concentric strice; blackish lead-colour, ribs darker, interior pale bluish-lead, nucleus larger, brownish-yelk.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vii. p. 530.

Hab. Senegal.

Of a uniform dark lead-colour, rayed with small almost superficial crenulated ribs, and having a conspicuous opakebrownish yelk nucleus in the interior.

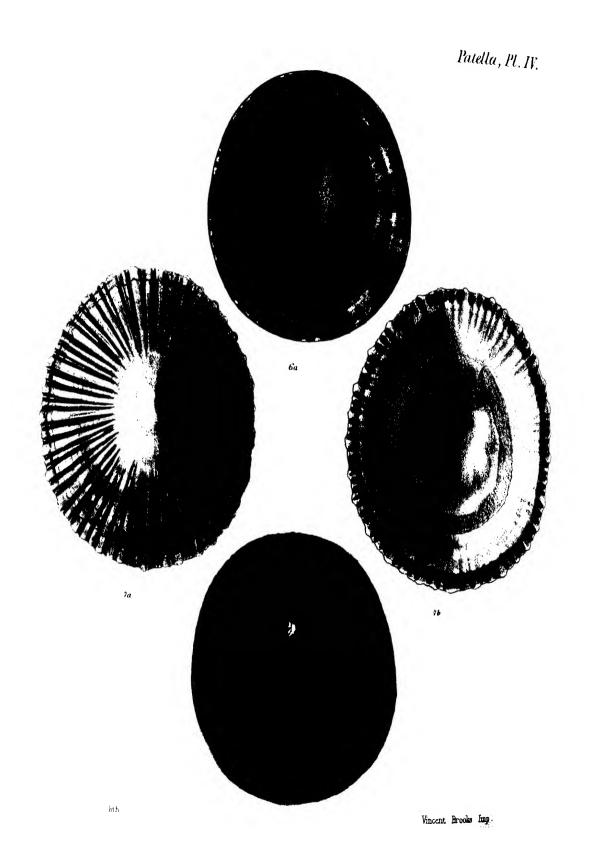


PLATE 1V.

Species 6. (Fig. a, b, Mus. Cuming.)

Patella testudinaria. Pat. testá ovato-rolundatá, crassiusculá, semipellucidá, apice anticè subinclinato, striis radiatis et concentricis decussatá; lutescente, intensè purpureo-rufo reticulato-radiatá et maculatá, intus argenteá, ad marginem purpureo maculatá.

THE TORTOISE-SHELL LIMPET. Shell ovately rounded, rather thick, semipellucid, apex rather inclined anteriorly, decussated with radiating and concentric striae; yellowish, net-rayed and blotched with deep purple-red, interior silvery, blotched with purple at the margin.

LINNEUS, Syst. Nat. (12th edit.) p. 1260.

Lottia testudinaria, Sowerby.

Hub. Philippine Islands; Cuming.

Though a solid shell, this species is comparatively of transparent substance. The purple-red painting is deposited in a peculiar smeary style, always uniform and characteristic. The interior is lined with a delicate silvery nacre, into which the dark red rays blend from the margin.

Species 7. (Fig. a, b, Mus. Cuming.)

PATELLA ZEBRA. Pat. lestá ovatá, acutè convexá, subaltá, apice prominente, anticè subinclinato, rudiatim rudè nodoso-costatá, costis ætate evanescentibus; grisco-albá, nigro-fusco radiatim strigutá, intus albá, vitello tinctá, margine maculis nigro-fuscis binis conspicuè picto.

THE ZEBRA LIMPET. Shell ovate, sharply convex, rather high, apex prominent, somewhat inclined anteriorly, radiately roughly nodosely ribbed, ribs fading with age; greyish-white, radiately streaked with black-brown, interior white, tinged with yelk-yellow, margin conspicuously painted with narrow black-brown blotches in pairs.

Patella rustica, Menke (not of Linnaus).

Hab. Swan River.

A very characteristic species, strongly rudely noduleribbed in the young state, the ribs being about two-andtwenty in number, but with age they become faint. The shell is of a greyish-white, vividly rayed with black-brown streaks, and the inner margin is conspicuously and neatly painted with narrow blotches of the same colour in pairs.

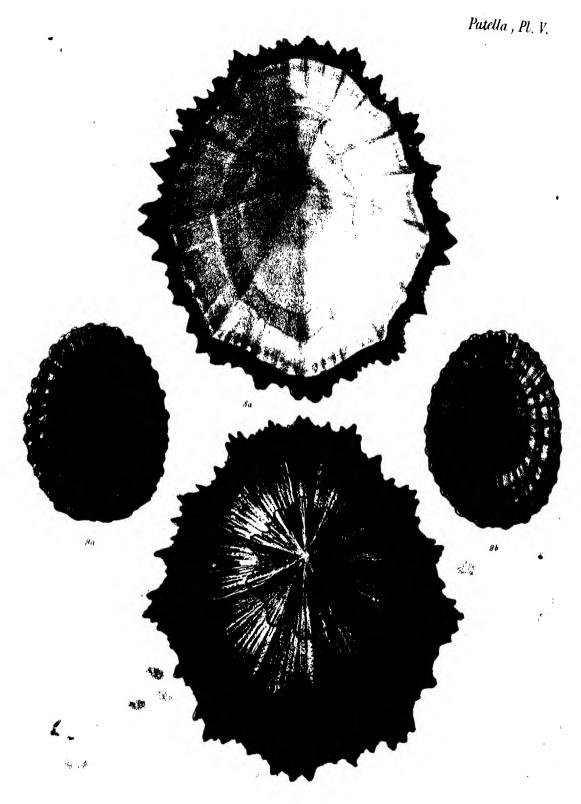


PLATE V.

Species 8. (Fig.a, b, Mus. Cuming.)

PATELLA RUSTICA. Pat. testă ovată, indistincte octagonă, convexiusculă, solidă, acute rude irregulariter costată, costis versus marginem squamatis; ferrugineo-rufă, intus tacteă, margine acute irregulariter squamato, nallide rufescente.

THE RUSTIC LIMPET. Shell ovate, indistinctly octagonal, rather convex, solid, sharply rudely irregularly ribbed, ribs scaled towards the margin; rust-red, milk-white within, margin sharply irregularly squamate, pale reddish.

LINNÆUS, Syst. Nat. (12th edit.) p. 1261. llab. Cape of Good Hope.

A bold roughly ribbed species, the ribs being bluntly scaled towards the margin, of a peculiar rust-red colour, milk-white in the interior.

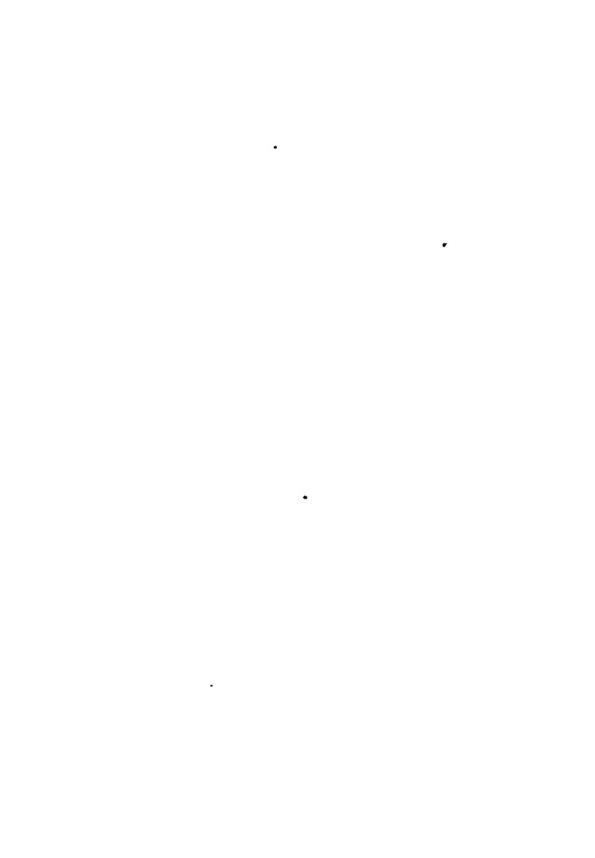
Species 9. (Fig. a, b, Mus. Cuming.)

Patella enea. Pat. testá suboblongo-ovatá, attá, apice anticè inclinato, radiatim squamato-costatá, squamis brenissimis, subdistantibus; intensè sordidè fuscá, intus aneo-castaneá.

THE BRONZE LIMPET. Shell somewhat oblong-ovate, high, apex inclined anteriorly, radiately squamately ribbed, scales very short, rather distant; dark dull brown, interior bronze-chestnut.

MARTYN, Universal Conchology, vol. i. pl. 17. Hab. Straits of Magellan; Cuming.

An elevately oblong-conical species, of a dull brown, rayed with bluntly scaled ribs, the scales being rather distant. The interior is chestnut-stained and of iridescent bronze.



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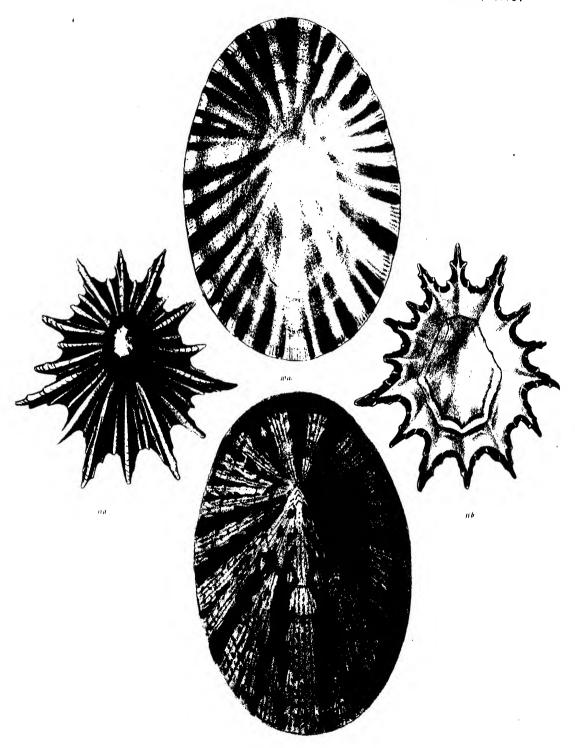


PLATE VI.

Species 10. (Fig. a, b, Mus. Cuming.)

Patella sanguinans. Pat. testá oblongo-ovatá, convexinsculá, apice subantico, striis concentricis lirisque parvis superficiariis decussatá; albidá, hic illic peculiariter rugosá, strigis sanguineo-rufis promiscue fluentibus tinclá, superficie rugosá rufo-punctatá, intus semipellucido-albá, conspicue rufo-radiatá.

THE BLEEDING LIMPET. Shell oblong-ovate, rather convex, apex rather anterior, decussated with concentric strice and small superficial ridges; whitish, here and there peculiarly rough, marked with promiscuously flowing blood-red streaks, rough surface red-dotted, interior semipellucid-white, conspicuously red-rayed.

11ab. Cape Natal, South Africa.

This fine new species is of an oblong-oval form, rather flattish, with the apex situated somewhat anteriorly. It is of a reddish-white ground, painted with promiscuous streaks of red, like blood flowing, and the ground is singularly overlaid here and there with an opake rough coating dotted with red.

Species 11. (Fig. a, b, Mus. Cuming.)

Patella longicosta. Pal. testá ovatá, anticè subattenuatá, depresso-convexá, costis duodecim fortissimis radiatá, costis paucis minoribus intermediis, omnibus carinatis; ferrugineo-nigrá, intus cærulescente-albá, nucteo pallidè vittellino, margine prominentè stellatosquamato, nigro-fimbriato.

THE LONG-RIBBED LIMPET. Shell ovate, slightly attenuated anteriorly, depressly convex, rayed with twelve very strong ribs, with a few smaller intermediate ribs, all the ribs keeled; rust-black, interior bluish-white, with a pale yelk nucleus, margin prominently stellately scaled, black-rayed.

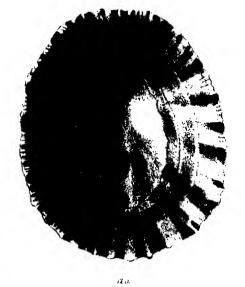
LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vii. p. 528.

Patella gorgonica, Humphreys, MS.

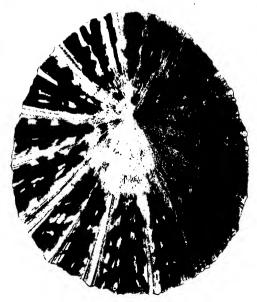
Hab. ---- ?

This well-known species is chiefly remarkable on account of the very conspicuous star-like development of the ribs.









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PLATE VII.

Species 12. (Fig. a, b, Mus. Cuming.)

Patella conspicua. Pat testă ovată, antice vix atlenuotă, convexiusculă, subpellucidă, radiutim profuse sulcată et striată; cærulescente-albă, cærulescentenigro promiscue marmorato-radiată, intus subargenteă, medio opaco-albă aut vitellină, ad marginem conspicue radiată.

THE CONSPICUOUS LIMPET. Shell ovate, scarcely contracted in front, slightly convex, subpellucid, radiately profusely grooved and striated; bluish-white, promiscuously mottle-rayed with blue-black, interior slightly silvery, opake-white or yelk in the middle, conspicuously rayed at the margin.

Philippi, Abbild. und Besch. Conch. pl. 3. f. 1. Hab. Mouth of the Gaboon, West Africa.

The dark rays which characterize this species are of quite a peculiar mottled style of colouring, and, the shell being of a subtransparent texture, they are seen very distinctly through it towards the margin. The inner central nucleus is sometimes yelk-yellow, sometimes marble-white.

Species 13. (Mus. Cuming.)

Patella compressa. Pat. testá oblongá, altá, ad latera peculiariter compressá, undiquè radiatim striatá, striis obscurè remotè granulatis, tenuiculá; sordidè stramineá, subpellucidá, intus medio opaco-altá.

THE COMPRESSED LIMPET. Shell oblong, high, peculiarly compressed at the sides, everywhere radiately striated, strize obscurely remotely granuled, rather thin; dingy straw-colour, subtransparent, interior opake-white at the middle.

LINNEUS, Syst. Nat. (12th edit.) p. 1261. Hab. Cape of Good Hope.

A dingy straw-coloured subtransparent shell, rayed throughout with faintly knotted striæ, always singularly compressed at the sides.

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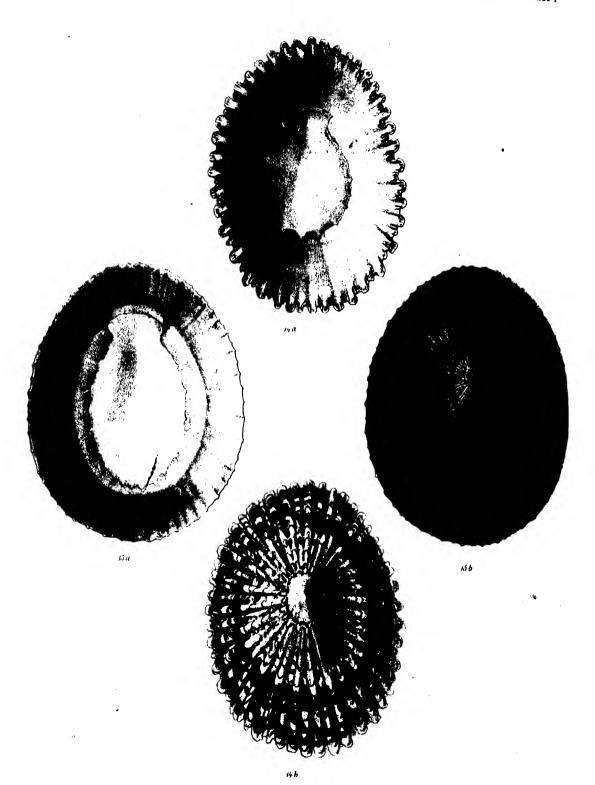


PLATE VIII.

Species 14. (Fig. a, b, Mus. Cuming.)

Patella costoso-plicata. Pat. testă ovală, convexiusculă, crassiusculă, radiatim fortiler costată, costis irregularibus, rude declivi-tuberculatis, interstitiis rude clathratis; sordide eroso-fuscă, intus albă, margine fimbriată.

THE RIB-PLEATED LIMPET. Shell ovate, slightly convex, rather thick, radiately strongly ribbed, ribs irregular, rudely slantingly tuberculated, interstices rudely latticed; dingy eroded brown, interior white, fimbriated at the margin.

Martini, Conch. Cab. vol. i. p. 91. pl. 8. f. 66. Patella ferruginea, Gmclin.

Hab. --- ?

A solid white shell, rayed with strong slantingly tubercled ribs rudely latticed in the interstices, the whole surface having a rusty eroded aspect. Species 15. (Fig. a, b, Mus. Cuming.)

PATELLA CUPREA. Pat. testá ovatá, semiglobosá, solidiusculá, radiatim crenuluto-liratá, liris alternis minoribus; cupreo-fuscá, intus argenteá, nucleo opacoalbo.

THE COPPER LIMPET. Shell ovate, semiglobose, rather solid, radiately crenulately ridged, alternate ridges smaller; copper-brown, interior silvery, nucleus opake-white.

Patella lugubris, Dunker (not of Martyn or Martini).

Hab. Swan River.

A firm shell, of a semiglobose saucer-like form, rayed with crenuled ridges, alternately smaller, the exterior being of a semitransparent copper-brown white, the interior is bright silvery.





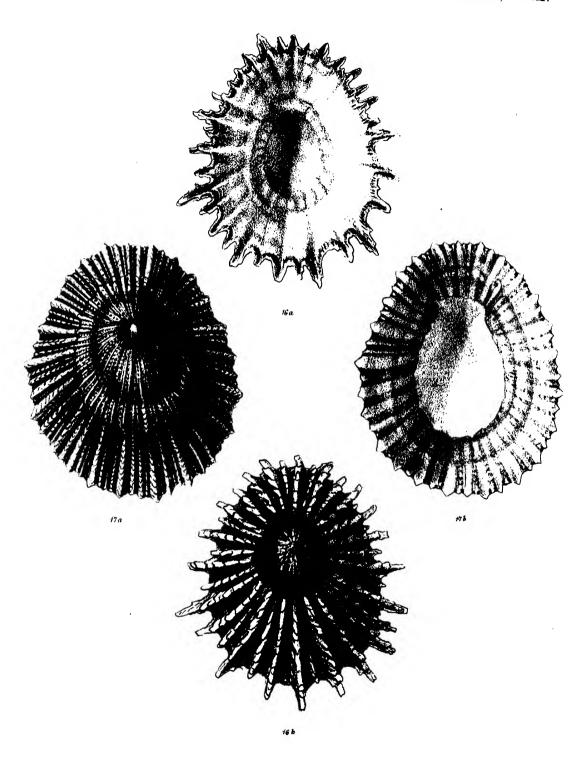


PLATE IX.

Species 16. (Fig. a, b, Mus. Cuming.)

PATELLA PLICATA. Pat. lestá ovatá, anticè subangustiore, parum convexá, rudè plicato-costatá, costis squamis cornutis rugosis profusè armatis; grisco-ulbá, nigrocante marmoratá, intus nitente-albá, morgine acutè elongato-squamatá.

THE PLEATED LIMPET. Shell ovate, rather narrower anteriorly, but little convex, rudely plicately ribbed, ribs profusely armed with rough horned scales; greyish-white, marbled with pale black, interior shining white, sharply elongately scaled at the margin.

BORN, Mus. Test. Vindobonensis, pl. 18. f. 1. Hab. Cape of Good Hope.

Chiefly distinguished by the rude scales of the ribs, which are very irregularly developed and mostly of a prolonged horn-like growth. The colour of the shell is generally an ash-mottled grey.

Species 17. (Mus. Cuming.)

Patella unbella. Pat. lestá ovatá, anticè subattennatá, rudiatim costatá, costis acutis, subrudibus, squamulatis, liris duabus minutis in interstitiis; subpellucido-albá, minio punctatá et strigatá, intus pellucido-albá, nucleo marmorco-albo.

THE LUTTLE FAN LIMPET. Shell ovate, subattenuated in front, radiately ribbed, ribs sharp, rather rude, finely scaled, with two minute ridges in the interstices; subtransparent-white, dotted and radiately strenked with vermilion, interior transparent-white, with marble-white nucleus.

GMELIN, Syst. Nat. p. 3706.

Patella sanquinolenta, Gmelin.

· Patella miniata, Born.

Hab. Cape of Good Hope.

Of transparent-white texture, rudely squamately ribbed, delicately streaked and spotted in the interstices between the ribs with bright scarlet-vermilion.



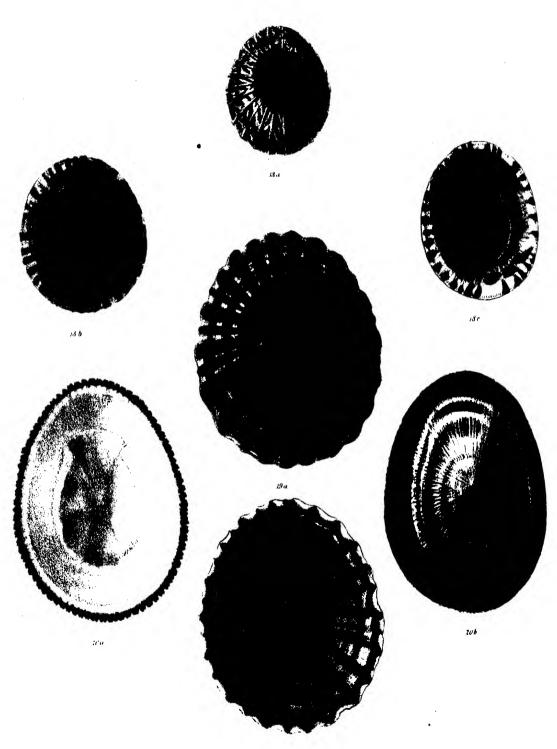


PLATE X.

Species 18. (Fig. a, b, c, Mus. Cuming.)

PATELLA VENOSA. Pat. testá ovatá, convexá, ætate subaltá, antice subcontractá, in testá juniore radiatim costatá, costis parvis, subdistantibus, ætate plus minus
obsoletis, prope marginem varicosis; pellucido-altá,
castaneo-purpureo irregulariter venoso, venis ad marginem bifurcatis, intus purpureo-castaneo intense tinctá.

THE VEINED LIMPET. Shell ovate, convex, rather high with age, a little contracted in front, in the young shell radiately ribbed, ribs small, rather distant, more or less obsolete with age, varicose near the margin; transparent-white, irregularly veined with chestnut-purple, veins bifurcated at the margin, deeply stained with purple-chestnut in the interior.

Hab. Isle of Chiloc, West Columbia; Cuming.

A transparent shell, gently radiately ribbed in the young state, of transparent-white substance crossed with veins of rich chestnut-purple. The veins are zigzag-biforked at the margin; and the interior of the shell is richly stained with the same colour, bronze-hued.

Species 19. (Fig. a, b, Mus. Cuming.)

PATELLA MAGELLANICA. Pat testá ovatá, pyramidaliconcavá, altissimá, radiatim costatá, costis latiusculis, rudibus, obsoletè retusè tuberculatis; cinereo-fuscá, costis saturatioribus, nigro-maculatis, intus cinereotinctá.

THE MAGELLAN LIMPET. Shell ovate, pyramidally concave, very high, radiately ribbed, ribs rather broad, rude, obsoletely bluntly tubercled; ash-brown, ribs darker, blotched with black, interior ash-tinged. MARTINI, Conch. Cab. vol. i. pl. 5. f. 40 and 41. Hab. Straits of Magellan; Cuming.

This species is distinguished chiefly by its lofty pyramidal cup-form, a character not discernible in our figure; and it is rayed throughout with broad obtuse ribs obscurely bluntly tubercled.

Species 20. (Fig. a, b, Mus. Cuming.)

Patella Argénvillii. Pat. testá suboblongo-ovatá, anticè paululum contractá, profundè convexá, radiatim densè tenuiliratá, liris planulatis, crenulatis, alternatim majoribus, interstitiis ad marginem bidenticulatis; atrá, versus apicem plus minus erosá, intus marmoreo-albá, ferrugineo-luteo tinctá, margine atrá.

ARGENVILLE'S LIMPET. Shell somewhat oblong-ovate, a little contracted in front, deeply convex, radiately densely finely ridged, ridges flat, crenulated, alternately larger, interstices bidenticulated at the margin; jet-black, more or less eroded towards the apex, interior marble-white, tinged with rusty-yellow, black at the edge.

KRAUSS, Südafrikanische Mollusken, p. 49.

Lepas écaillé, Argenville, Conch. vol. i. p. 504. pl. 3. f. G. ⁴

Hab. Table Bay, South Africa.

The sculpture of this shell consists of a number of close-set sharp jet-black ridges inclined to be white in the interstices, but more or less eroded towards the apex. The margin is neatly set round with sharp denticles in pairs.

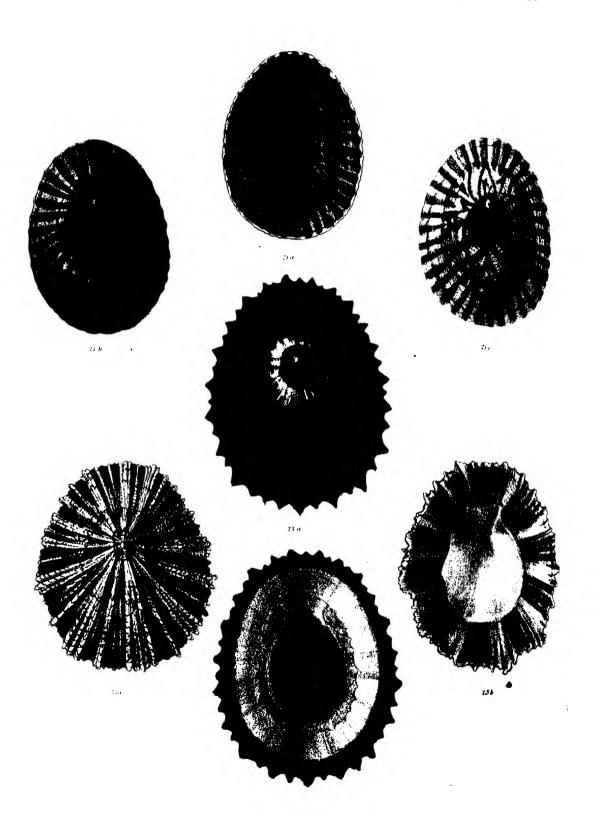


PLATE XI.

· Species 21. (Fig. a, b, c, Mus. Cuming.)

PATELLA VARIOOSA. Pat. testá suboblongo-ovatá, anticè paululum contractá, convexá, apice anticè inclinato, radiatim costatá, costis latis, irregularibus, ferè obsoletis; virescente-albá, purpureo-castaneo tinctá et venosá intus venosá et variecatá.

THE VARICOSE LIMPET. Shell rather oblong-ovate, a little contracted in front, convex, apex inclined anteriorly, radiately ribbed, ribs broad, irregular, nearly obsolete; greenish-white, stained and veined with purple-chestnut, veined and variegated interior.

Hab. Tierra del Fuego; Cuming.

The painting of this shell, when not obscured by age, is very similar to that of *P. venosa* of the preceding plate. The form of the shell is a more oblong-oval, and the ribs of the surface are broad and almost obsolete.

Species 22. (Fig. a, b, Mus. Cuming.)

l'ATELLA VIDUA. Pat. testá ovatá, convexiusculá, fortiter acutè costatá, costis alternatim minoribus, minutè squamatis, squamis distantibus, costá alterná interdum ferè obsoletá; ferrugineo-nigrá, apice erosá, intus albidá, fasciá latá ferrugineo-nigrá ad marginem, nucleo pallidè ferrugineo.

THE WIDOW LIMPET. Shell ovate, moderately convex, strongly sharply ribbed, ribs alternately smaller, minutely scaled, scales distant, the alternate rib sometimes nearly obsolete, rusty-black, eroded at the apex,

interior whitish, with a broad rusty-black band at the edge, nucleus pale rust.

Hab. Island of Camiguing, Philippines.

A moderately convex shell, rayed with sharp ribs, alternately larger and smaller, each rib being roughened with minute somewhat distant scales; the chief characteristic of the species lies in its broad deep rust-black marginal border.

Species 23. (Fig. a, b, Mus. Cuming.)

PATELLA ASPERA. Pat. testá ovatá, suboctagoná, antice paululum contractá, leviter convexá, varie irregulariter constatá, undique tenuiliratá, tiris squamato-spinosis; albidá, ferrugineo vel atro variegatá, intus pellucido-albá, marqine crenulatá.

The Rough Limper. Shell ovate, suboctagonal, a little contracted in front, slightly convex, variously irregularly ribbed, finely ridged throughout, ridges squamately spinose; whitish, variegated with rust or black, interior pellucid-white, crenulated at the margin.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vii. p. 529.

Hab. Madeira.

Of a suboctagonal form, but little convex, rudely irregularly ribbed and densely finely ridged, the ridges being profusely scale-spined.

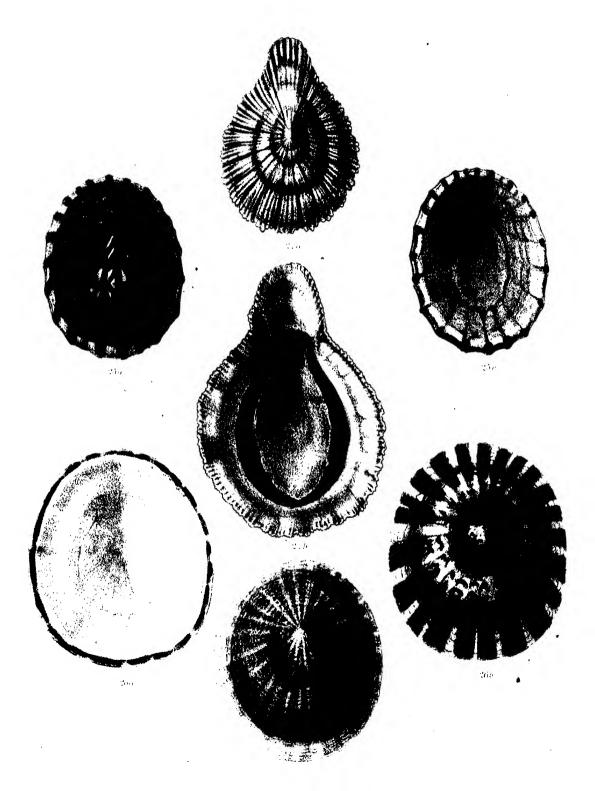


PLATE XII.

Species 24. (Fig. a, b, Mus. Cuming.)

PATELLA COCHLEAR. Pat. testá rotundato-ovatá, parum convexá, anticè attenuato-productá et cochleariformi, radiatim plano-costatá, costis latis, acutè sulcatis; cærulescente-albá, intus cæruliore, impressione musculari cæruleo-nigrá, margine crenulato.

THE SPOON LIMPET. Shell rotundately ovate, but little convex, anteriorly attenuately produced and spoon-shaped, radiately flatly ribbed, ribs broad, sharply ridged; bluish-white, interior more blue, with the muscular impression blue-black, margin crenulated.

GMELIN, Syst. Nat. p. 3721. Ilab. Cape of Good Hope.

A very characteristic species, always distinguishable by its blue colouring and by the spoon-shaped prolongation of the anterior extremity.

Species 25. (Fig. a, b, Mus. Cuming.)

PATELIA RADIANS. Pat. testá ovatá, convexiusculá, apice anticè multò inclinato, radiatim costatá, costis rotundatis, subdistantibus, obsoletè nodosis, anticis brevisnimis; olivaceo-cinereá, costis plus minus nigris, interstitiis nigro alboque maculatis, intus sordidè cinereá, uncleo fulvo.

THE RAYED LIMPET. Shell ovate, moderately convex, apex very much inclined anteriorly, radiately ribbed, ribs rounded, rather distant, obsoletely nodose, front ribs very short; olive-ash, ribs more or less black,

interstices blotched with black and white, interior dull ash, nucleus fulyous.

GMELIN, Syst. Nat. 13th edit. p. 3720. Hab. New Zealand; Earl.

The aper of this species is unusually much inclined anteriorly. The entire surface is distinctly rayed with full cord-like ribs, black-stained, and sprinkled chiefly in the interstices with white spots.

Species 26. (Fig. a, b, c, Mus. Cuming.)

PATELIA VIRIDUIA. Pat. testa rotundato-ovatá, subconoideá, undique peculiariter dense minute indentatá, radiatim costatá, costis distantibus, planulatis, fere obsoletis; flavescente-albá, viridi plus minus maculatá et punctatá, costis opaco-albo interium punctatis, intus albá, margine viridi.

THE GREENISH LIMPET. Shell rotundately quate, subconoid, everywhere peculiarly densely minutely indentated, radiately ribbed, ribs distant, flattish, almost obsolete; yellowish-white, more or less blotched and dotted with green, ribs sometimes dotted with opake-white, interior white, green at the edge.

LAMARCK, Anim. sans vert. vol. vii. p. 539.

Patella Pretrei, D'Orbigny.

Hab. Coquimbo; Cuming.

Peculiarly finely indented throughout, and dotted and variegated with bright green.



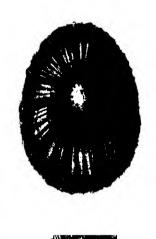










PLATE XIII.

Species 27. (Fig. a, b, c, Mus. Cuming.)

PATELLA TRAMOSERICA. Pat. testá ovatá, subconoided, radiatim costatá, costis confertis, interdum obscurè nodoso-tuberculatis, raro submuricatis; lutescente aut roseá, nigro radiatá, radiis albo maculatis, vel interstitis omnino nigris, intus margine plus minus viridè coloratá.

THE DRUGGET LIMPET. Shell ovate, subconoid, radiately ribbed, ribs close-set, sometimes obscurely nodosely tubercled, rarely a little prickled; yellowish or rose-tinged, rayed with black, rays white-spotted, or with the interstices altogether black, interior more or less brightly coloured at the margin.

MARTYN, Universal Conchology, vol. i. pl. 16. Hub. Australia.

Distinctly coloured with black and yellow or black and scarlet, which shines through brightly into the interior at the margin.

Species 28. (Fig. a, b, Mus Cuming.)

PATELLA CARULEA. Pat. testá ovatá, convexiusculá, apice antice subinclinato, radiatim costatá, costis rudibus, irregularibus, nunc grandibus, nunc parvis; virescente-cæruleá, purpureo-rufo versus marginem tinctá, intus pellucido-coloratá, nucleo opaco-albo.

THE BLUE LIMPET. Shell ovate, moderately convex, the

apex a little inclined anteriorly, radiately ribbed, ribs rude and irregular, now large, now small; greenishblue, tinged with purple-red towards the margin, interior transparently coloured, nucleus onake-white.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vii. p. 531.

Hab. Teneriffe.

A delicate subtransparent rough-ribbed species, greenish-blue, tinged with purple-red towards the margin.

Species 29. (Mus. Cuming.)

PATELLA LIMBATA. Pat. testă ovată, subconoideă, radiatim costată, costis rudibus, lutis, plus minus indistinctis, nodulatis, obsolete muricatis; intense aurantiă, costarum interstitiis angustissimis nigris, intus margine aurantio nigro conspicue maculato, nucleo cæruleo.

THE EDGED LIMPET. Shell subconoid, radiately ribbed, ribs rude, broad, more or less indistinct, noduled, obsoletely prickly; deep orange, interstices between the ribs very narrow, black, interior orange at the margin, conspicuously blotched with black, nucleus blue.

PHILIPPI, Abbild. und Besch. Conch. pl. 3. f. 1. Hab. Signet Bay, North Australia; Dring.

Closely allied to P. tramoserica, from the same locality, with the ribs broader and less distant from each other.

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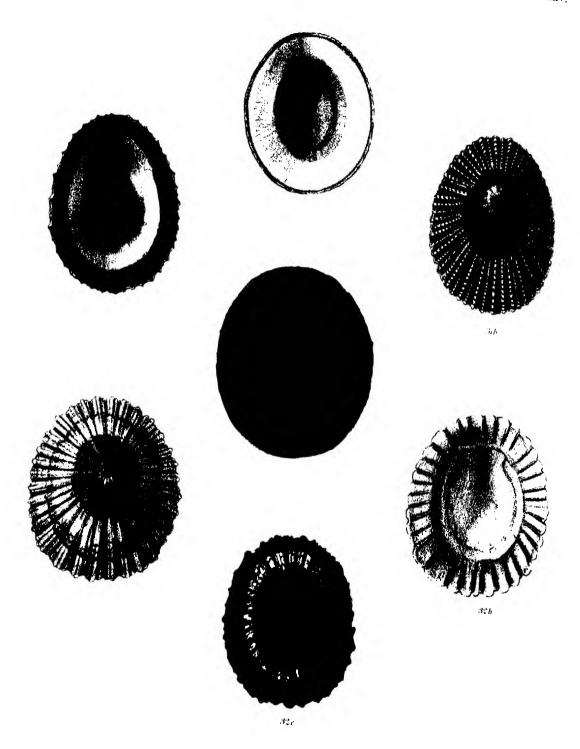


PLATE XIV.

Species 30. (Fig. a, b, Mus. Cuming.)

PATELLA CLATHRATULA. Pat. testå rolundato-ovatå, subconoideä, apice anticè subinclinato, liris subtitibus profusè radiatå, striis concentricis clathratå; intensè cinereo-olivaccà, immaculatå, intus pallidè olivaceo-cinereä, margine saturatiore, nucleo fulvo.

THE FINELY LATTICED LIMPET. Shell rotundately ovate, subconoid, apex a little inclined anteriorly, profusely rayed with fine ridges, latticed with concentric strice; dark ash-olive, unspotted, interior light olive-ash, darker at the margin, nucleus fulvous.

Hab. Isle of Juan Fernandez; Cuming.

Of a regular conoid form, finely latticed throughout, and of a uniform dark cinder-olive colour.

Species 31. (Fig. a, b, Mus. Cuming.)

PATELIA GRANULARIS. Pat. testã ocală, antice paululum contractă, subconvideă, apice antice leviter inclinato, dense radiatim lirată, liris irregularibus, plus minus prominentibus, nitide squamato-imbricatis; nigricantecinereă, squamis albis, intus late fusco-marginată, deinde cærulescente, nucleo rufo-castaneo, limbo hic illicalbo denticulato.

THE GRANULAR IMPET. Shell ovate, a little contracted anteriorly, subconoid, apex slightly inclined in front, densely radiately ridged, ridges irregular, more or

less prominent, neatly squamately imbricated; blackish-ash, scales white, interior broadly brown-edged, then bluish, nucleus reddish-chestnut, edge denticulated here and there with white,

LINNÆUS, Syst. Nat. (12th edit.) p. 1258.

Patella denliculata, Martyn.

Hab. Cape of Good Hope.

Singularly characterized by a profusion of white prickly imbrications, upon a dull dirty ash-black ground.

Species 32. (Fig. a, b, c, Mus. Cuming.)

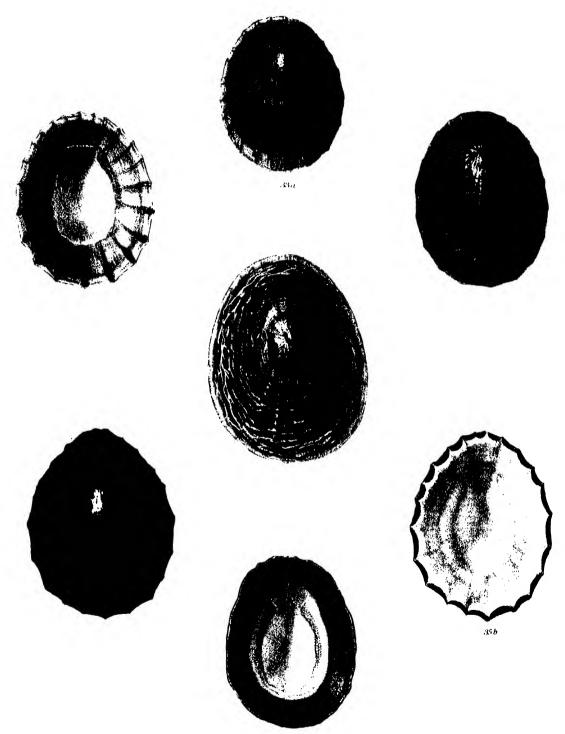
PATELLA LUGUBRIS. Pat. testá ovatá, convexiusculá, apice unticè leciter inclinato, densè rudè costatá et lirutá, et nodosè muricato-squamatá; sordidè utbá, intensè nigro tinctá et maculatá, intus fulvo-albá vel plumbeo-cæruleá, margine latè serrato.

The Mournful Limpet. Shell ovate, moderately convex, apex slightly inclined anteriorly, densely rudely ribbed and ridged, and nodosely prickly-scaled; dull white, stained and blotched with intense black, interior fulvous-white or lead-blue, margin broadly serrated.

Hab. Island of St. Vincent's, West Indies.

An irregularly roughly ribbed shell, covered with short prickly-scaled nodules. Of a dull white ground, more or less stained and blotched with intense black.





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PLATE XV.

Species 33. (Fig. a, b, c, Mus. Cuming.)

PATELLA DECORA. Pat. lesta ovata, semigloboso-concava, apice anticè multo inclinato, radiatim costata, costis augustis, rotundatis, vix elevatis, distantibus, interstitis undato-striatis, striis concentricis obsoletè decussatis; virescente-olivacea vel lutea, costis nigro vel saugnineo maculatis, intus pellucido-cinerea.

THE COMELY LIMPET. Shell ovate, semiglobosely concave, apex much inclined anteriorly, radiately ribbed, ribs narrow, rounded, but little raised, distant, interstices wave-striated, obsoletely decussated with concentric strice; greenish-olive or yellow, ribs blotched with black or blood-colour, interior transparent-ash.

PHILIPPI, Abbild. und Besch. Conch. pl. 2. f. 5. Hab. New Zealand; Earl.

Of a peculiar semiglobose form, with the apex very much inclined to the anterior, rayed with ribs, blotched with black and blood-like gouts.

Species 34. (Fig. a, b, Mus. Cuming.)

Patella Candel. Pat. testá ovatá, subconoideá, versus marginem leviter compressá, obsoletè nodoso-clathratá, plerumque multo erosá, lineis concentricis albis undalis formantibus; intus extusque semipellucidè livido-olivaceá, nucleo albo.

CANDE'S LIMPET. Shell ovate, subconoid, slightly compressed towards the margin, obsoletely nodosely latticed, generally much eroded, forming concentric waved white lines; semitransparent livid olive within and without, nucleus white.

D'ORBIGNY, Moll. des Isles Canaries.

Hab. Canary Islands.

A semitransparent livid-olive shell, obsoletely nodosely latticed, but generally very much worn and croded, leaving characteristic white waved lines.

Species 35. (Fig. a, b, Mus. Cuming.)

Patella exusta. Pat. testa ovata, antice subattenuata, planulato - convexa, subexpansa, apice antice
inclinato, rudiatim costata, costis, cum superficie, rudibus, irregularibus, obscure muricato-squamatis, interstitiis liris concentricis subdistantibus obsolete clathratis; ustulato-nigra, rufo-tincta, intus marmoreoalba, margine remote denticulato, purpureo-nigro.

THE BURNT LIMPET. Shell ovate, a little attenuated in front, flatly convex, rather spread, apex inclined anteriorly, radiately ribbed, ribs (with the surface) rude, irregular, obscurely prickly-scaled, interstices obsoletely latticed with rather distant concentric ridges; burnt-black, red-tinged, interior marble-white, edge remotely denticulated, purple-black.

Hab. ---?

An extremely characteristic species, marble-white within, reddish-burnt black without, but of singular rude irregular obsoletely latticed sculpture.

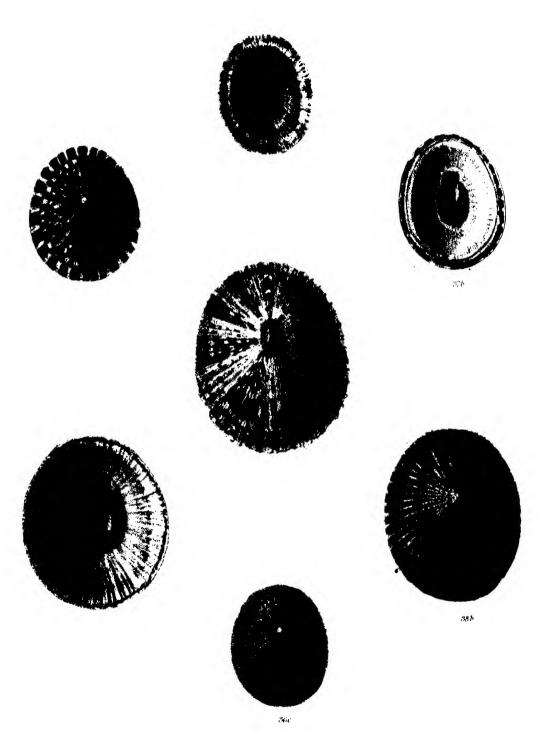


PLATE XVI.

Species 36. (Fig. a, b, c, Mus. Cuming.)

Patella variegata. Pat. testá orbiculari-ovatá, subacuminato-convexá, anticè paululum inclinatá, radiatim granoso-liratá, granis obtusis, valdè irregularibus; (utescente, nigro-purpureo interruptè radiatá et maculatá, intus obscurè semipellucidá, argenteo-iridescente.

THE VARIEGATED LIMPET. Shell orbicularly ovate, subacuminately convex, a little inclined anteriorly, radiately granosely ridged, grains obtuse, very irregular; yellow, interruptedly rayed and blotched with very dark purple, obscurely semitransparent within, silvery iridescent.

REEVE, Conch. Syst. vol. ii. pl. 136. f. 1. Hub. Australia.

A rather acuminately raised shell, roughly bluntly granuled, marked with numerous spots and broken blotched rays of very dark purple.

Species 37. (Mus. Cuming.)

Patella Cumingii. Pat. testá orbiculari-ovatá, subdepresso-convexá, anticè leviter attenuatá et inclinatá, liris tenuibus confertim radiatá, in juniore striis concentricis eleganter decussatá; lutescente aut virescentealbá, intensè viridi densè tessellatim tinctá, intus cærulescente-albá, margine lato maculato.

CUMING'S LIMPET. Shell orbicularly ovate, rather depressly convex, slightly attenuated and inclined anteriorly, closely rayed with fine ridges, in the young shell elegantly cancellated with concentric striae; yellowish or greenish-white, densely tessellately mottled with dark green, interior bluish-white, with a broad mottled border.

Hab. Valparaiso; Cuming.

A very dark green and yellowish-white mottled shell, rather depressly convex, characterized internally with a conspicuous broad mottled border. It is closely allied to the *P. diaphana*, Nuttall, from Mazatlan.

Species 38. (Mus. Cuming.)

PATELLA CLYPEATER. Pat. testá depresso-orbiculari, tenuiculá, densè radiatim liratá, liris irregularibus, obsoletè tuberculato-undatis, ferrugineo-fusco pulcherrimè tinctá et maculatá, intus argenteo-iridescente, medio vividè purpureo-ferrugineá.

THE SHIELD LIMPET. Shell depressly orbicular, rather thin, densely radiately ridged, ridges regular, obsoletely tubercularly waved, very beautifully stained and mottled with rust-brown, interior silvery iridescent, bright purple-rust in the middle.

LESSON, Zool. Voy. de la Coquille, p. 419.

Hab, Monterey, Lower California; Hartweg.

A rather thin subdepressed species, profusely stained and dotted with copper-rust-brown, the interior being brilliantly silvery iridescent.

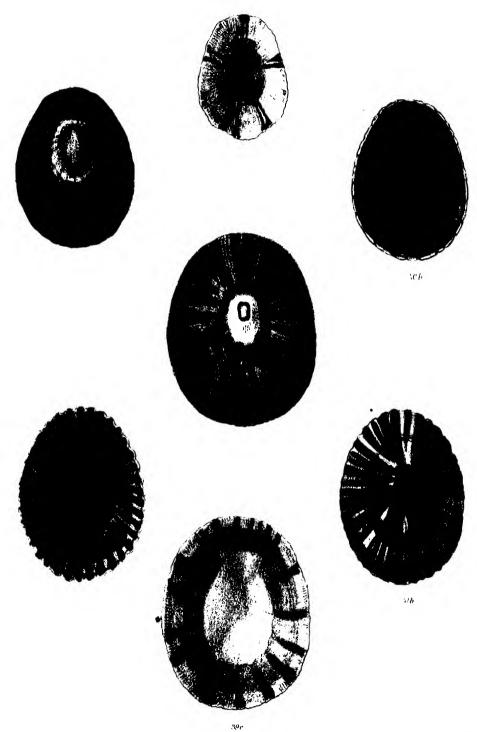


PLATE XVII.

Species 39. (Fig. a, b, c, Mus. Cuming.)

PATELLA NOTA. Pat. testă depresso-ovată, aulice subattenuată, radiatim rugoso-striată vel lirată, liris in testă juniore oblongo-granatis, deinde obsoletis; lutescente-albă vel plumbeă, purpureo-fusco remote radiată, intus argenteo-corneă, medio interdum aurantio-rufă.

THE WHEEL LIMPET. Shell depressly ovate, anteriorly subattenuated, radiately roughly striated or ridged, ridges in the young shell oblong-grained, then obsolete; yellowish-white or lead-colour, distantly rayed with purple-brown, interior silvery horny, sometimes orange-red in the middle.

CHEMNITZ, Couch. Cab. vol. x. p. 330, pl. 168, f. 1619, Hab. Sucz. Mozambique.

Extremely variable in distinctness of character, the rays in most specimens being almost obsolete.

Species 40. (Mus. Cuming.)

PATELLA FERRUGINEA. Pat. testá oblongo-ovatá, anticè subattenuatá et multo inclinatú, profundè elevato-con-rerá, interdum subcompressá, obsoletè undato-liratá, liris subdistantibus, lineis concentricis densè circumdatá; ferrugineo-cinered, intus intensè ærugineo-fuscá.

THE FERRUGINOUS LIMPET, Shell oblong-ovate, a little attenuated and much inclined in front, deeply elevately convex, sometimes a little compressed, obsoletely wave-ridged, ridges rather distant, densely encircled with concentric lines; ferruginous ash, deep bronze-brown within.

Sowerby (Mus. Cuming).

Patella Delessertii, Philippi.

Hab. ---- 9

A subcompressed deeply raised shell obscurely ashstained without, and of a rich dark bronze-brown within.

Species 41. (Mus. Cuming.)

Patella atramentosa. Pat. testá oratá, utrinque subattenuatá, elevatá, crassinsculá, rude obtuso-costatá, costis irregularibus, obsoleté tuberculatis; albidá, atro laté profusé fluente, intus argenteo-luteá, ærugineo-fusco tinctá, margine dentato, nigro-maculato.

THE INKY LIMPET. Shell ovate, rather attenuated at both ends, raised, rather thick, rudely bluntly ribbed, ribs irregular, obsoletely tubercled; whitish, broadly

profusely flowing with jet-black, interior silvery yellow, stained with bronze-brown, margin denticulated, black-spotted.

Hab. Cape Horn.

A raised attenuately ovate species, with a characteristic painting of broad flowing ink-streaks, white appearing in the interstices at irregular distances.

December, 1854:

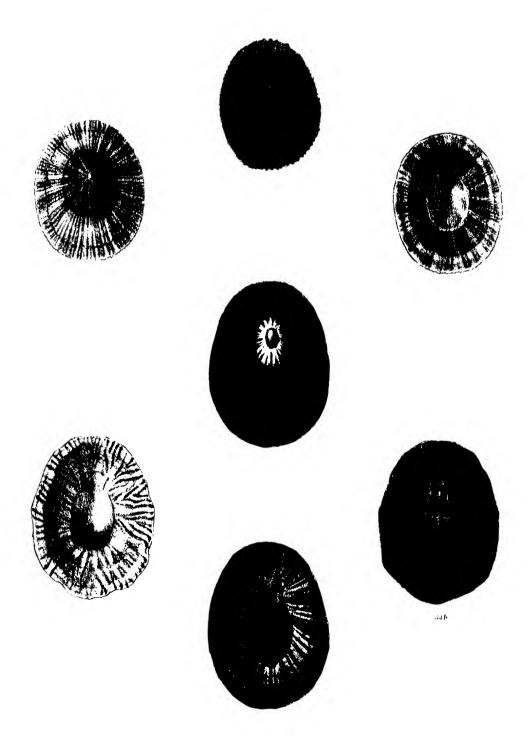


PLATE XVIII.

Species 42. (Fig. a, b, c, Mus. Cuming.)

PATELIA VULOATA. Pat. lestá ovatá, subprofundè convexá, apice subcentrali, rudiatim striatá vel costatá, costis interdum squamato-spinosis; cinercá vel lutescente-otivaceá, obscurè radiatá, spinis albidis, intus livido-otivaceá.

THE COMMON LIMPET. Shell ovate, rather deeply convex, apex nearly central, radiately striated or ribbed, ribs sometimes squamately spined; greyish or yellow-olive, obscurely rayed, spines white, interior livid-olive.

LINNÆUS, Syst. Nat. (12th edit.) p. 1258.

Patella depressa, Pennant.

Patella vulgaris, Da Costa,

Hab. Atlantic shores of Europe.

This well-known species is curiously varied in sculpture, but not differing materially in colour. Sometimes it is smooth or gently striated, and sometimes ribbed and minutely scale-spined.

Species 43. (Mus. Cuming.)

PATELLA NIGRO-LINEATA. Pat. testă suboblongo-ovată, antice subattenuată et multo inclinată, tenniculă, depressiusculă, radiatim tirată, tiris obtusis, subdistantibus, alternis medio terminalibus; cinereo-nigricante, ad apicem pallescente, liris intense nigris, intus nigrescente-caruleă, nucleo ustulato-fuscescente.

THE BLACK-LINED LIMPET. Shell rather oblong-ovate, slightly attenuated and much inclined anteriorly,

thinnish, rather depressed, radiately ridged, ridges obtuse, rather distant, the alternate ones terminating about the middle; cinder-black, pale at the apex, ridges deep black, interior blackish-blue, nucleus burnt-brown.

Hab. Island of Camiguing, Philippines; Cuming.

A rather thin cinder-black shell, conspicuously rayed with blunt scarcely rayed black ridges, bluish in the interior, with a characteristic light burnt-brown nucleus.

Species 44. (Mus. Cuming.)

Patella enneagona. Pat. testă orață, antice subattenuală et inclinată, depressă, crassiusculă, apice obtusă, dense crenulato-lirată, peculiariter cancagonă, areis tribus anticis angustis; lutescente, areis nonis intense purpureo diagonaliter reticulato-strigatis, intus argenteo-iridescente.

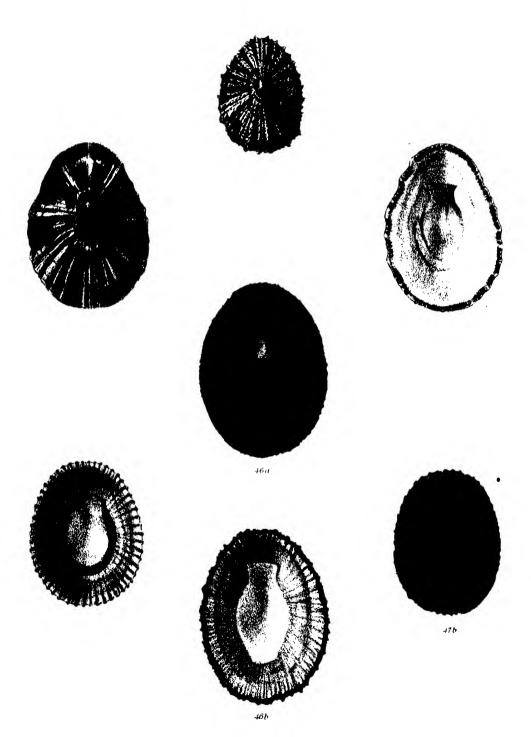
The nine-sided Limper. Shell ovate, a little attenuated in front, depressed, rather thick, obtuse at the apex, subattenuated and inclined, densely crenulately ridged, peculiarly nine-sided, the three front areas narrow; yellowish, the nine areas diagonally reticulately streaked with deep purple, interior silvery iridescent.

Hab. --- ?

This very characteristic species is divided on the surface into nine distinct areas, of which the three front are smaller than the rest; and the diagonal net-striped painting appears in the areas only.

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Sowerby deletith.

PLATE XIX.

Species 45. (Mus. Cuming.)

Patella Pica. Pat. testá ovatá, antice acuminatá, subcochleariformi, depressá, medio elevatá, radiatim rude tiratá et costatá, muricató-squamatá, squamis ætate plus minus obsoletis; fulvescente-albá, aigro varie picutú, intus albicante, flavido-fusco tinctá, margine denticulato, picato.

THE PIED LIMPET. Shell ovate, acuminated in front, somewhat spoon-shaped, depressed, raised in the middle, radiately rudely ridged and ribbed, prickly scaled, scales more or less obsolete with age; fulvous-white, variously pied with black, interior white, tinged with vellowish-brown, margin denticulated, pied.

Hab. South Seas.

A characteristic spoon-shaped shell, rudely prickly ridged and ribbed, yellowish-white, promiscuously blotched with positive black.

Fig. 46. (Mus. Cuming.)

This shell is the young of P. plumbea, represented at

Plate II., which it is important to figure, as showing the sharper and more crenated structure of the ridges.

Species 47. (Mus. Cuming.)

Patella exarat. Pat testă rotundato-ocală, elevată, apice antice leciter inclinată, radiatim lirută, tiris distinctis, subremotis, irregularibus, rotundatis, tenue confertim crenatis; pallide fulvă, subpellucidă, tiris caruleo-nigricantibus, opacis, intus argenteo-iridescente, medio carulescente-lacteă.

The Ploughed Limpet. Shell rotundately ovate, raised, slightly anteriorly inclined at the apex, radiately ridged, ridges distinct, rather distant, irregular, rounded, finely closely crenated; pale fulvous, subpellucid, ridges blue-black, opake, interior silvery iridescent, milky-blue towards the middle.

NUTTALL, Jay's Catalogue of Shells, p. 38.

Hab. Oregon, California: Licutenant Baskerville.

A light silvery shell, rayed with conspicuously defined, blue-black, closely cronated, rounded ridges.

December, 1854.



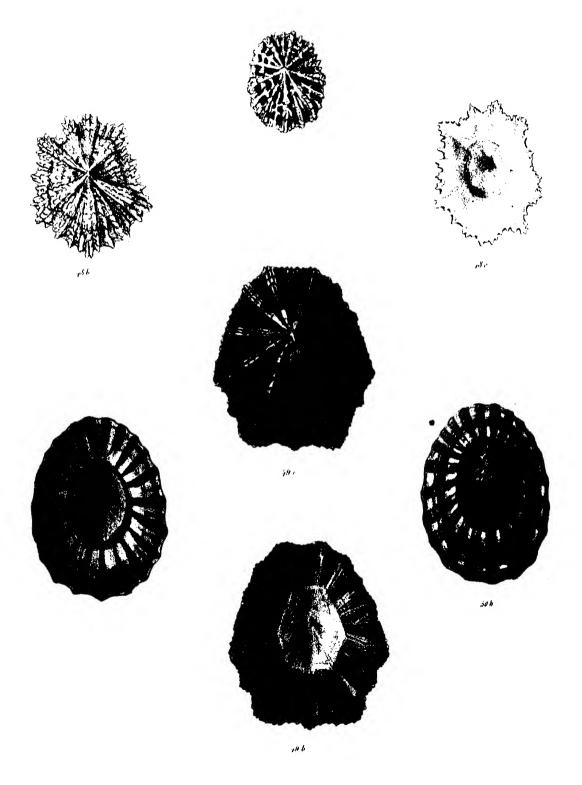


PLATE XX.

Species 48. (Fig. a, b, c, Mus. Cuming.)

Patella pentagona. Pat: testá ovatá vel pentagona, valde irregulari, nunc depressá, nunc elevatá, costis octo vel novem radiatá, costis rarid tuberculatis et squamatis, interstitiis rugoso-clathratis; albá, nigro plus minus picatá, medio aurantio tinclá.

THE FIVE-SIDED LIMPET. Shell ovate or five-angled, very irregular, sometimes depressed, sometimes raised, rayed with eight or nine ribs, ribs variously tubercled and scaled, interstices wrinkle-latticed; white, more or less pied with black, orange-stained in the middle.

BORN, Mus. Test. Vindobouensis.

Patella stella formis, Reeve (in Conch. Systs).

Mab. Elizabeth Island, South Seas, and Philippine Islands.

Remarkable for its irregular growth, and white tubercled, rudely wrinkled, sculptured, more or less pied in the interstices with black.

Species 49. (Mus. Cuming.)

Patella scutellaris. Pat. testá subhexagono-ovatá, anticè panlulum attenuatá, depressá, tenuiculá, radia-

tim costată, costis distantibus, subobsoletis, interstitiis dense tenniliratis et striatis, minute crenulatis; olicuceo-caeruleă, costis versus apicem pallidioribus, intus pellucido-griseă.

THE DISH LIMPET. Shell somewhat hexagonally ovate, a little attenuated in front, depressed, rather thin, radiately ribbed, ribs distant, rather obsolete, interstices densely finely ridged and striated, minutely crenulated; olive-blue, ribs paler towards the apex, interior transparent grey.

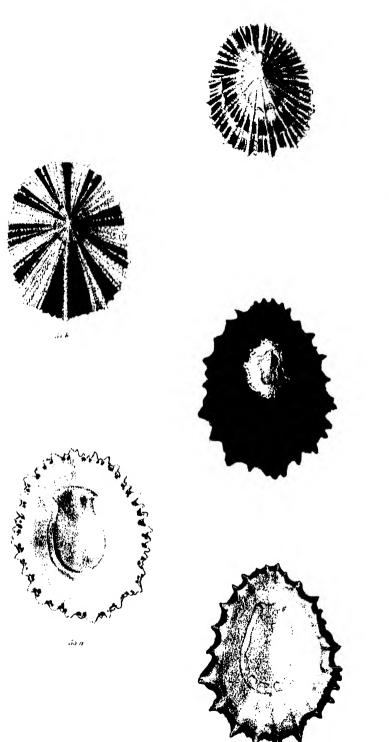
LAMARCK, Anim. sans vert. (Deshayes edit.) vol. vii. p. 532. *Hab.* Bay of Naples.

A transparent olive-grey is the prevailing colour of this species, but it is variable.

Fig. 50. (Mus. Cuming.)

This shell proves to be *P. redimiculum*, represented at Plate XII. in an earlier stage of growth, when the interior is less coated with opake lining, and has a more transparent tortoise-shell appearance. It has been attributed to *P. radians*, Gmelin, but like many other species of this author, it rests on doubtful evidence.

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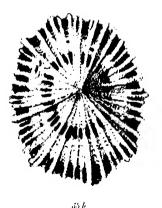


PLATE XXI.

Species 51. (Fig. a, b, c, Mus. Cuming.)

PATEILA BONNARDI. Pat. testá ovatá, subacutè convexá, apice subanticá, costis lirisque acutè compressis densè radiatá, squamis concentricis decussatá; albá, nigro vel fusco radiatá, intus subnellucido-albá.

BONNARD'S LIMPET. Shell ovate, rather sharply convex, subanterior at the apex, profusely rayed with sharply compressed ribs and ridges, decussated with concentric scales; white, rayed with black or brown, interior subtransparent white.

PAYRAUDEAU, Cat. Moll. de Corse, p. 89, pl. 3, f. 9-11.

A sharply convex shell, rayed with numerous compressed squamate ribs and ridges; white rayed with black or rust-

Species 52. (Mus. Cuming.)

l'ITELLA CHITONOIDES. Pat. testá ovatá, anticè acuminutá, valdè depressá, crassiusculá, irregulariter radiutim costatá, costis acutis, rudibus, plus minus obsoletè squamato-tuberculatis; intensè purpureo-nigrá, hic illic albo-erosá, intus lacteá, margine acutè denticulato, purpureo-nigro.

In Chiton-like Limpet. Shell ovate, acuminated in front, very depressed, rather thick, irregularly radiately ribbed, ribs sharp, rude, more or less obsoletely

squamately tubercled; deep purple-black, here and there white-eroded, interior milk-white, margin sharply denticulated, purple-black.

Hab. -

A very depressed rudely constructed species, strongly rayed with rough irregular bluntly scaled ribs, deep purpleblack except where promiseuously white-eroded.

Species 53. (Mus. Cuming.)

Patella Cretacea. Pat. testá ovatá, subdepressá, radiatim densè costatá, costis parviusculis, compressis aut tumidiusculis, obsoletè squamatis, valdè irregularibus; cretaceo-albá, purpureo-nigro hic illic sparsim maculatá, intus albá, margine denticulato, purpureo-nigro tenuè limbato.

THE CHALK LIMPET. Shell ovate, rather depressed, radiately densely ribbed, ribs rather small, compressed or swollen, obsoletely squamate, very irregular; chalkwhite, here and there sparingly blotched with purpleblack, interior white, margin denticulated, thinly edged with purple-black.

Hab. Tahiti.

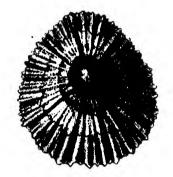
Allied to the preceding species, though of a perfectly distinct character, more truly ovate, with the ribs more numerous and irregular, and less stained with purple-black.

December, 1854.

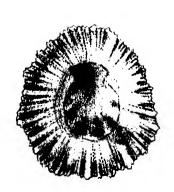












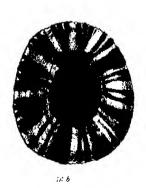


PLATE XXII.

Species 54. (Fig. a, b, c, Mus. Cuming.)

PATELIA FUNEBRIS. Pat. testd ovatá, antice subattenuatá, elevato-convexá, lævigatá, costis tuberculatis radiatá, tuberculis tumidis, interdum subdistantibus; sordide nigrá, ad apicem ferrugineo-albá, intus opacoalbá, interdum ferrugineo tinctá.

THE MOURNING LIMPET. Shell ovate, slightly attenuated in front, elevately convex, smooth, rayed with tubercled ribs, tubercles swollen, sometimes rather distant; dull black, rusty-white at the apex, interior opake white, sometimes rust-tinged.

Hab, ---- ?

A very characteristic dull black species, smooth, but rayed with tubercularly noduled rather distant ribs.

Species 55. (Mus. Cuming.)

Patella Electrina. Pat. testa orbiculari, anticè attenuată, subdepressă, apice acută, radiatim dense lirată, tiris rudibus, irregularibus, obtuse squamatis; pallide fulvă, circa apicem et inter liras ferrugineă, intus pellucido-albă.

THE AMBER LIMPET. Shell orbicular, attenuated in

front, rather depressed, sharp at the apex, radiately densely ridged, ridges rough, irregular, bluntly squamate; light fulvous, rusty about the apex and between the ridges, interior transparent white.

Hab. Australia.

Of a subtransparent texture, stained with amber rust about the apex and between the ridges, the colour showing conspicuously through in the interior.

Species 56. (Mus. Cuming.)

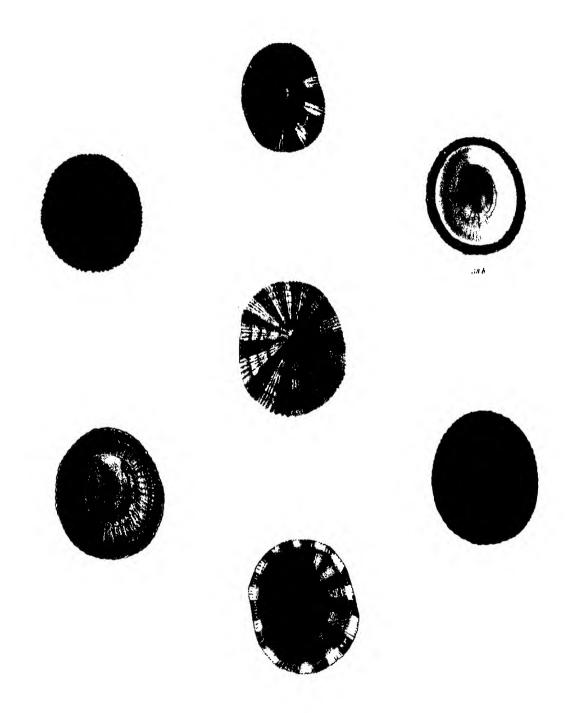
PATELLA PETALATA. Pat. testá ovatá, subdepressá, obsoleté cancellato-liratá; pellucido-flavicante, radiis latix nigricante-purpureis pictá, intus pellucido-corneá, nucleo castaneo-purpureo.

THE PETALED LIMPET. Shell ovate, rather depressed, obsoletely cancellately ridged; transparent yellow, painted with broad blackish-purple rays, interior transparent horny, nucleus chestnut-purple.

Hab. Australia.

A semi-transparent yellow horny shell, conspicuously painted with broad, rich, blackish-purple rays, which are sometimes a little broken up.





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PLATE XXIII.

Species 57. (Fig. a, b, c, Mus. Cuming.)

PATELLA NIGRO-PUNCTATA. Pat. testá ovatá, elevatoconvexá, ad apicem submucronatá, radiatim rugosoliratá; sordidd cinereá, pallidd carneo tineta, obscurd
latiradiatá, liris punctis nigris oblongis genunatis, inlus fulvo-cinereá, interdum conspicud otivaceo radiatá.

THE BLACK-DOTTED LIMPET. Shell ovate, elevately convex, rather pointed at the apex, radiately rugosely ridged; dull ash-colour, pale flesh-tinted, obscurely broadly rayed, ridges beaded with oblong black dots, interior fulvous-ash, sometimes conspicuously oliverayed.

Hab. Cascaes Bay, Portugal.

A raised subacuminately convex species, rayed in a very characteristic manner with oblong black bend-like dots.

Species 58. (Mus. Cuming.)

Patella striata. Pal. ovato-orbiculari, peculiariter compresso-depressá, apice minuto, anticè inclinato, liris tenuibus funiculatis subirregulariter densè radiatá; nigrá, maculis parvis albis interdum indistinctè radiatá, intus cærulescente-albá, medio fuscescente linctá, margine nigro latè limbato.

THE STRIATED LIMPET. Shell ovately orbicular, peculiarly compressly depressed, with the apex minute, inclined anteriorly, somewhat irregularly densely

rayed with thin cord-like ridges; black, sometimes faintly rayed with distant small white spots, interior bluish-white, stained with brown in the middle, margin broadly edged with black.

Patelloida striata, Quoy, Voy. de, l'Astrolabe, vol. iii. p. 353, pl. 71, f. 8-11.

Hab. Philippine Islands; Cuming.

Of a peculiar convexly depressed form, with a very small apex, rayed with numerous fine corded ridges, black, obscurely rayed with white spots, unusually broadly black-bordered on within.

Species 59. (Mus. Cuming.)

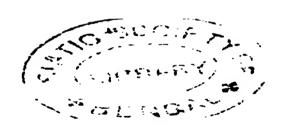
Patella undato-libata. Pat. testá ovatá, subacutè convexá, versus apicem anticè subinclinatá, profusè liratá, liris tenuò crenulatis et peculiariter undulatis, cærulescente-plumbeú, intus eodem colore, subiridescente.

THE WAVE-RIDGED LIMPET. Shell ovate, rather sharply convex, a little inclined anteriorly towards the apex, profusely ridged, ridges finely crenulated and peculiarly waved, bluish lead-colour, interior the same colour, rather iridescent.

Hab. Sandwich Islands; Dr. Newcombe.

In form this species is sharply convex, inclined anteriorly towards the apex, from which point it is rayed with numerous thinly waved ridges. In colour it is within and without of a bluish-lead.





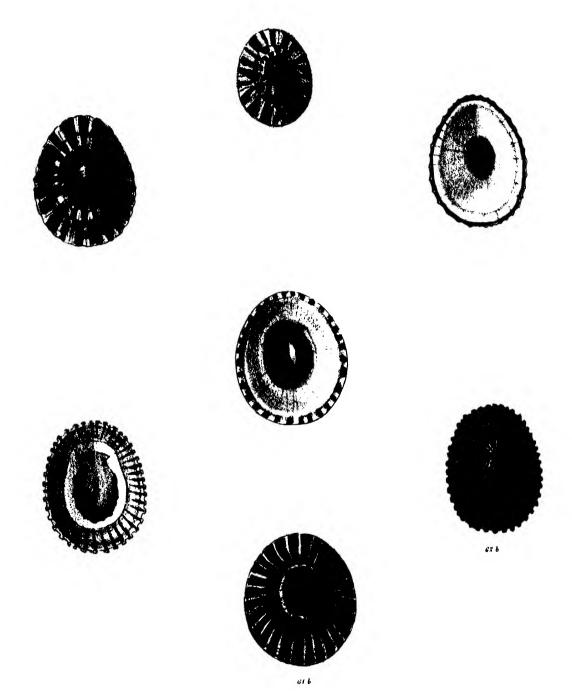


PLATE XXIV.

Species 60. (Mus. Cuming.)

PATELLA CINIS. Pat. testa ovata, antice subattenuata, subacule elevato-convexa, striis costisque latis retusis radiata, costis interdum ferè obsoletis; cinereo-nigra, strigis albidis undatis nebulatis ornata, intus nilentealba, nucleo intense castaneo, parvo.

THE CINDER LIMPET. Shell ovate, a little attenuated in front, rather sharply elevately convex, rayed with stria and broad retuse ribs, ribs sometimes almost obsolete; einder-black, marked with clouded waved white streaks, interior shining white, nucleus deep chestnut, small.

Hab. Monterey, Lower California; Hartweg.

The colouring of this species is a streaked pattern of faint bluish-white waves upon a dark cinder-black ground.

Species 61. (Mus. Cuming.)

PATELLA DIAPHANA. Pal. testă ovată, antice subattenuată, depressă, profuse tenuilirată, liris plus minus indistinctè granulatis; olivaceo-viridi, lutescente-albo peculiariter radială et variegală, intus diaphuno-virescente, ad marginem late marmorată.

The diaphanous Limper. Shell ovate, slightly attenuated in front, depressed, profusely finely ridged, ridges more or less indistinctly granuled; olive-green, peculiarly rayed and variegated with yellowish-white, interior diaphanous green, broadly mottled at the margin.

NUTTALL, Jay's Catalogue of Shells, p. 38.

Hab. Upper California; Nuttall. Central America; Cuming, Hinds, Kellett.

Distinguished by a peculiar diaphanous green colouring, more or less densely variegated and mottled exteriorly with yellowish-white.

Fig. 62. (Mus. Cuming.)

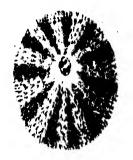
 Λ variety of P. exarata, described at Plate XIX., more distinctly ridged.

December, 1854.





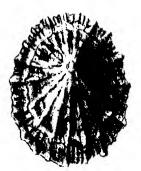
















65 b

PLATE XXY.

Species 68. (Fig. a, b, c, Mus. Cuming.)

PATRILIA VARIABILIS. Pat. lostá ovatá, depressissimá, irregulari, extus quade liratá es plus minus erosá, interdum
viscocente, punctis nigris undatis radiatá; intus cærulescente, medio vastaneo-tinctá, peculiariter varie lineatá et lentiguasa, margine late planulato, interrupte
lineato.

THE VARIABLE LIMPET. Shell ovate, very depressed, irregular, externally rudely ridged, and more or less eroded, sometimes greenish, rayed with waved black dots; interior bluish, sometimes stained with chestnut in the middle, peculiarly variously lineated and speckled, margin broadly flattened, interruptedly lineated.

Sowerby, Zool. Beechey's Voyage, p. 147. pl. 39. f. 5 (not f. 3 or f. 4).

Hab. Valparaiso; Cuming.

This species is very depressed and irregular, peculiarly marked in the interior with dark promiscuous lines, or chestnut curiously speckled with yellow.

Species 64. (Mus. Cuming.)

PATELLA MORBIDA. Pat. testá ovatá, rudò depressá, medio rotundato-elevatá, radiatim fimbriato-costatá, plus minus erosá, liris obsoleté brevispinosis; intus luteo-albá; nigro plus minus irregulariter inquinatá, extus ferrugineo-erosá.

THE DISEASED LIMPET. Shell ovate, rudely depressed, rotundately raised in the middle, radiately fimbriately ridged, more or less eroded, ridges obsoletely

short-spined; interior yellowish-white, more or less irregularly stained with black, exteriorly rust-eroded.

Hab. Cape of Good Hope.

Of a characteristic depressly furbelowed growth round the margin, the radiating ridges armed here and there with short sharp black and white spines. Exteriorly the shell is roughly rust-eroded, interiorly it has a peculiarly diseased look.

Species 65. (Mus. Cuming.)

PATELLA ZEBRINA. Pat. testá ovatá, antice subattenuatá, apice acuté elevato et antice inclinato, radiatim costatá, costis obtusis, distantibus, subindistinctis, striis rugosis concentricis dense decussatis; virescente-luteá, maculis nigris acuté angulatis ornatá, intus virescente-albá, marqine maculatá.

THE ZEBRA-MARKED LIMPET. Shell ovate, slightly attenuated in front, apex sharply raised and inclined anteriorly, radiately ribbed, ribs obtuse, distant, rather indistinct, densely decussated with close-set rough striae; greenish-yellow, ornamented with sharply angled black spots, interior greenish-white, spotted at the margin.

LESSON, Zool. Voy. de la Coquille, p. 417.

Lottia zebrina, Gray.

Patella variabilis pars, Sowerby.

Hab. Valparaiso.

This and P. variabilis are supposed to be the same species in different states; they are, however, most distinct in form, and detail of sculpture.





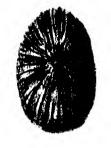










PLATE XXVI.

Species 66. (Fig. a, b, c, Mus. Cuming.)

PATELLA ARAUCANA. Pat. testá ovatá, nunc depressá, nunc elevatiusculá et antice acute inclinatá, radiatim costatá, costis rudibus, subtubulosis; lutescente-albá, costarum interstitiis intense viridi reticulatis, intus livido-albá, medio nigro-castaneá, margine virescente, subfinbriato.

THE ARAUCANIAN LIMPET. Shell ovate, sometimes depressed, sometimes a little raised and sharply inclined anteriorly, radiately ribbed, ribs rude, subtubulous; yellowish-white, interstices between the ribs reticulated with dark green, interior livid white, dark chestnut in the middle, margin greenish, slightly furbelowed.

D'Orbieny, Voy. dans l'Amérique Méridionale, p. 482. pl. 65. f. 4 to 6.

Hab. Valparaiso.

It may be doubted whether this is not also a variety of Mr. Sowerby's extremely variable *P. variabilis*, represented in the preceding plate.

Species 67. (Mus. Cuming.)

Patella vespertina. Pat testá ovatá, rotundato-convezá, subdepressá, densè irregulariter liratá et sulcatá, liris lævibus vel obsoletè nodosis, apice plano-obtuso; virescente, radiis lincisque viridibus nitidè pictá, intus cærulescente-albá, medio lutescente-fusco tinctá, margine subangusto.

THE EVENING-RAYED LIMPET. Shell ovate, rotundately convex, rather depressed, densely irregularly ridged and grooved, ridges smooth or obsoletely nodose, apex flatly obtuse; greenish, neatly painted with green rays and lines, interior bluish-white, tinged with yellowish-brown in the middle, margin rather narrow.

Hab. Panama and Gulf of California.

A* rather depressed rotundately convex species, of a seagreen hue, neatly painted with green rays and lines.

Fig. 68. (Mus. Cuming.)

This shell proves to be an acuminately spoon-shaped form of P. pica, represented at Plate XIX. Fig. 45.

January, 1855.

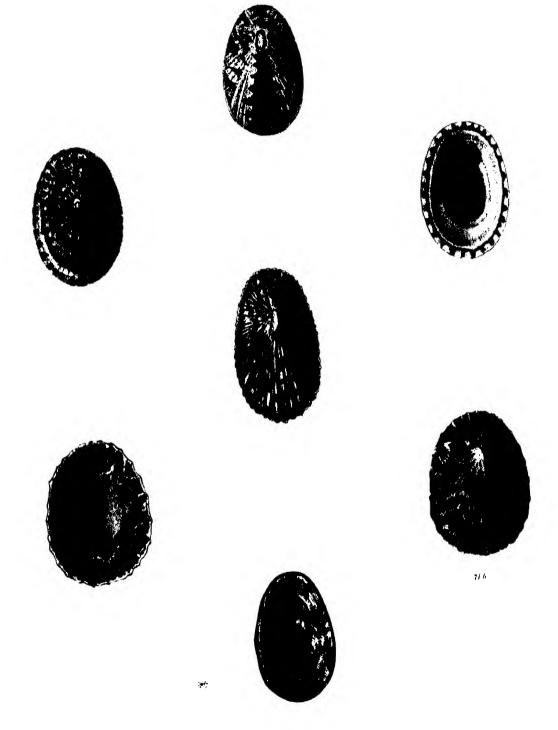


PLATE XXVII.

Species 69. (Fig. a, b, c, Mus. Cuming.)

PATELLA TOREUMA. Pat. testá oblongo-ovatá, anticè subattenuatá, depressissimá, apice valdè antico, densè radiatim liratá, liris alternatim majoribus, subcrenatis; virescente aut luteá, purpureo et opaco-albo radiatim rariegatá et punctatá, intus plus minus iridescentealbá, subpellucidá.

THE CHASED LIMPET. Shell oblong-ovate, slightly attenuated in front, very depressed, apex very anterior, densely radiately ridged, ridges alternately larger, subcrenated greenish or yellowish, radiately variegated and dotted with purple and opake-white, interior more or less iridescent-white, subtransparent. Hab. Monterey, California; Hartweg.

A beautifully painted and neatly sculptured shell, of attenuated oblong form, very depressed, with the apex inclined very anteriorly.

Species 70. (Mus. Cuming.)

Patella testudinalis. Pat. lestá oralá, suboblongá, acutò elevalá, lateraliter subcompressá, undique tenuissimò cancellato-striatá; virescente-albá vel luteá, castaneo et nigro reticulato-maculatá, intus cærulescente-albá, margine latimaculatá, medio castaneo-tinctá.

THE LITTLE TORTOISE-SHELL LIMPET. Shell ovate, rather oblong, sharply raised, laterally slightly compressed, everywhere finely cancellately striated; greenish-white or yellow, reticulately mottled with chestnut and black, interior bluish-white, broadly mottled at the margin, chestnut-stained in the middle.

Muller, Prodromus Zool. Dan. p. 237.

Patella tessellata, Müller.

Patella testudinaria Granlandica, Chemnitz.

Patella Clealandi. Sowerby.

Patella amena, Say.

Patella chypeus, Brown.

Lottia testudinalis, Forbes.

Patelloides testudinalia, Len.:

Acmaa testudinalis, Hanley.

Patelloidea amana, Couthony.

Lottin Antillarum, Sowerby.

Hab. Northern Seas.

This little tortoise-shell painted species prevails throughout the northern European and American Seas, usually much smaller, however, than the specimen here figured, which is from East Port Maine, United States. It is found plentifully in Greenland, and was dredged abundantly in Wellington Channel by Captain Sir E. Belcher, during the recent Arctic searching expedition of the Assistance and Resolute.

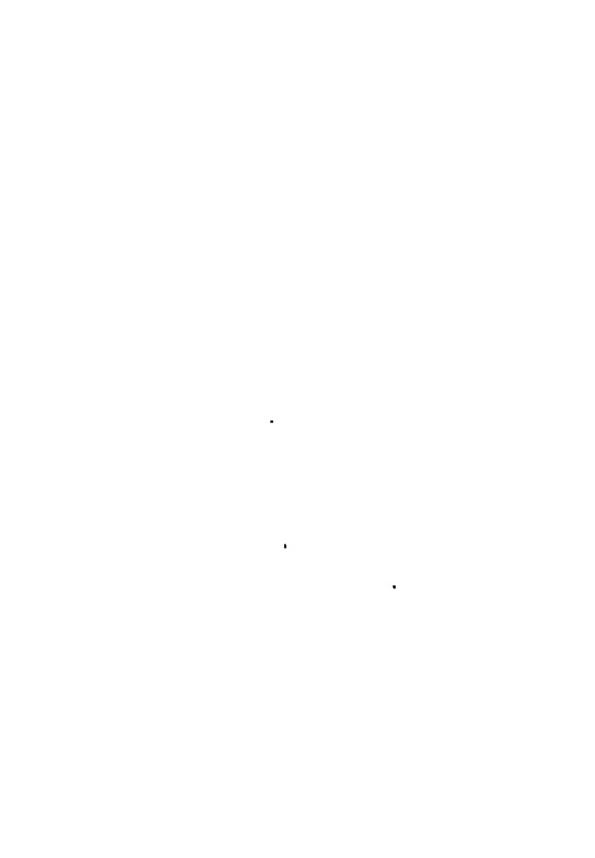
Species 71. (Mus. Cuming.)

PATELIA EARLII. Pat. testă rotundato-ovată, antice subattenută, convexo-elevată, apice antice inclinato, radin lirată, liris parvis, perpaucis, distantibus, interistiis irregulariter clevato-striatis; virescente, olivaceo-nigricante late undato-variegată, intus pellucidoiridescente, medio lacteă.

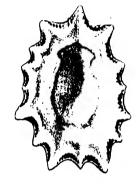
EARL'S LIMPET. Shell rotundately ovate, slightly attenuated in front, convexly raised, apex inclined anteriorly, radiately ridged, ridges small, very few and distant, with the interstices irregularly elevately striated; pale green, broadly wave-variegated with olive-black, interior transparently iridescent, milk-white in the middle.

Hab. New Zenland; Earl.

This is of the same local typical form as *P. redimiculum*, but peculiar in its high rounded growth and broad waved painting.

















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PLATE XXVIII.

Species 72. (Fig. a, b, c, Mus. Cuming.)

PATELLA SACCHARINA. Pat. testa ovata, acutè angulatoconvexá, crassiusculá, radiatim costatá, costis fortibus, compressis, variis, plerumque septem majoribus, interstitiis radiatim liratis; alba, inter costas maculis curvis nigris plus minus densè lincta, intus alba, nigromarginatá.

THE SACCHARINE LIMPET. Shell ovate, sharply angularly convex, rather thick, radiately ribbed, ribs strong, compressed, various, generally seven principal ones, interstices radiately ridged; white, more or less thickly painted between the ribs, with curved black blotches, interior white, black-edged.

Linnæus, Syst. Nat. (12th edit.) p. 1258.

Astrolepas saccharina, Argenville.

Astrolepas tigerina, Martini.

Hub. Philippine Islands; Cuming.

A solid strongly ribbed white shell, painted more or less densely with very characteristic crescent-shaped black blotches in the interstices.

Species 73. (Mus. Cuming.)

PATELLA FUEGIENSIS. Pat. testa ovali, tenuicula, semipellucida, subcompresso-elevata, apice rotundato, anticè inclinato, radiatim liratā, liris tenuibus, numerosis, striis concentricis dense decussatis; virescente, castaneo-fuscescente plus minus tinctá et maculatá, apice æneo, intus iridescente-æneå, radiatim sulcatå, sulcis interdum partim obsoletis.

THE FUEGO LIMPET. Shell oval, rather thin, semitransparent, rather compressly raised, apex rounded, inclined anteriorly, radiately ridged, ridges thin, numerous, densely crossed with concentric strine; greenish, more or less stained and blotched with chestnutbrown, apex bronze, interior iridescent-bronze, radiately grooved, grooves sometimes partially obsolete.

Hab. Tierra del Fuego. Falkland Islands.

A delicate subpellucid bronzed species, elegantly manyridged, of a pale greenish texture, partially, and sometimes almost entirely, stained and blotched with reddish-chestnut.

Species 74. (Mus. Cuming.)

PATELLA MARGARITARIA. Pat. testá rotundato-ovatá. subattenuată, subacute erecte elevată, antice inclinată, apice obtusa, radiatim costata et lirata, costis rudibus, tumidiusculis, nodosis, interstitiis muricatis; costis sordide albidis, interstitiis purpureo-nigris, muricibus opaco-albis, intus cornea, vivide purpureo-radiata.

THE PEARL-SET LIMPET. Shell rotundately ovate, interiorly a little attenuated, rather sharply erectly raised, inclined anteriorly, obtuse at the apex, radiately ridged and ribbed, ribs rude, rather swollen, nodose, interstices prickly; ribs dull white, interstices purple-black, prickles opake-white, interior horny, richly purple-rayed.

CHEMNITZ, Conch. Cab. vol. xi. p. 180. pl. 197. f. 1914,

1915.

Patella ornata, Dillwyn.

Hab. New Zcaland; Chemnitz.

A very distinct species, rayed with light rude nodose ribs, the interstices being dark purple-black, set with characteristic opake-white prickles



















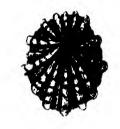






PLATE XXIX.

Species 75. (Mus. Cuming.)

Patella livescens. Pat testá ovatá, tenuiculá, depresso-convexá, apice subacuté mucronatá, radiatim dense granulato-striatá, striis subundulatis, apice subantico; pellucido-livescente, nigricante-purpureo radiatá, radiis interdum oblique maculatis, intus iridescente-argenteá, plus minus pellucidá.

THE BLUE-TINGED LIMPET. Shell ovate, rather thin, depressly convex, rather sharply pointed at the apex, radiately densely granulately striated, strice slightly waved, apex rather anterior; pellucid blue-green, rayed with blackish-purple, rays sometimes broken up into opake blotches, interior iridescent-silvery, more or less transparent.

Hab. Mazatlan, Gulf of California.

A very delicate subpellucid greenish-blue shell, painted with dark purple rays, which show through into the interior. The sculpture consists of numerous slightly waved granuled lines.

Species 76. (Mus. Cuming.)

Patella spectrum. Pat. testá ovatá, subdepressá, anticè subacutè acuminatá, ætate crassissimá, radiatim costatá, costis crassis, rudibus, compressè squamatis, interstitiis rugoso-striatis; ferrugineo-albá, squamis in testá juniore nigris, intus albá.

THE SPECTRE LIMPET. Shell ovate, rather depressed, anteriorly rather sharply acuminated, very thick with age, radiately ribbed, ribs thick, rude, compressly scaled, interstices roughly striated; rust-white, scales in the young shell black, interior white.

NUTTALL, Jay's Catalogue of Shells, p. 39. Hab. Upper California.

A very characteristic rough-ribbed shell, the ribs being armed with scales, which, in the young shell, are strikingly einder-black.

Species 77. (Mus. Cuming.)

PATELLA INBADIATA. Pat. testă ovată, elevato-conveză, lateraliter subcompressă, undique subobsoleté radiato-clathrată; albidă, lineis perpaucis rufis obscuré bifariam radiată, lineis irregularibus, distortis, intus albă, lineis rufis distinctis, medio castaneă.

THE IN-RAYED LIMPET. Shell ovate, clevately convex, somewhat compressed at the sides, everywhere rather obsoletely radiately latticed; whitish, obscurely rayed with a very few red lines in pairs, lines irregular, distorted, interior white, red lines distinct, chestnut in the middle.

Hab. ---- ?

A deep cup-like opake-white shell, obscurely latticed throughout, irregularly rayed with a few straggling red lines, which are most distinctly seen in the interior.

Species 78. (Mus. Cuming.)

Patella discors. Pat. testá subquadrato-ovatá, depressá, fortiter elevato-lineatá, circa apicem tuberculato-corrugatá; albidá, lineis intensè cæruleo-nigris, intus albá, margine nigro-lineato, latiusculo, testá juniore extus virescente linctá.

The differing Limpet. Shell subquadrately ovate, depressed, strongly elevately lined, round the apex tubercularly crumpled; whitish, lines strongly blueblack, interior white, border black-lineated, rather broad, young shell green-tinged without.

PHILIPPI, Abbild. und Besch. Conch. pl. 2. f. 6.

Hab. Mazatlan, Gulf of California; Lieut. Shipley.

A depressly convex shell, whitish and peculiarly crumpled round the apex, then densely sculptured with raised blue-black lines.

Species 79. (Mus. Cuming.)

Patella Opea. Pat. testá ovatá, anticè attenuntá, subdepressá, radiatim tenuiliratá, liris granulatis, versus apicem obsoletis; albidá, interstitiis versus marginem nigro-fuscis, obscurè sex-radiatá, intus albá, margine latiusculo, nitidè lineato.

THE EYEBROW LIMPET. Shell ovate, attenuated in front, rather depressed, radiately finely ridged, ridges granuled, obsolete towards the apex; whitish, interstices towards the margin black-brown, obscurely six-rayed, interior white, margin rather broad, neatly lineated.

NUTTALL, Jay's Catalogue of Shells, p. 38.

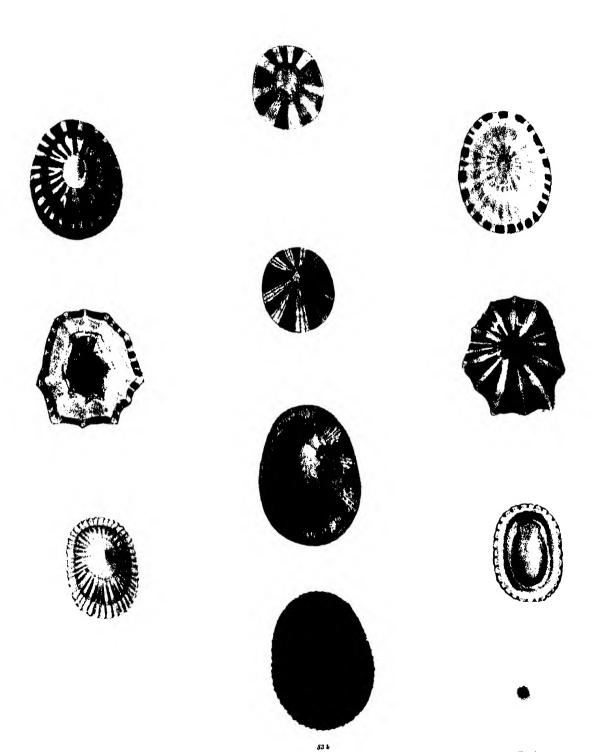
Hab. Sandwich Islands.

A rather depressed shell, finely granulately ridged, the interstices being coloured towards the margin with rust-black.





Patella , Pl. XXX.



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Vincent Brooks

PLATE XXX.

Species 80. (Mus. Cuming.)

PATELLA ASTER. Pat. testá ovatá, antice subattenuatá, subacute depresso-conicá, antice inclinatá, radiatim dense striatá, striis elevatis, obtuse granulatis, subundulatis; nigro-purpureá, luteo-albo radiatá, radiis acutis, perdistinctis, intus iridescente-corneá, subpellucidá.

THE STAR LIMPET. Shell ovate, a little attenuated in front, rather sharply depressly conical, inclined anteriorly, radiately densely striated, strice raised, obtusely granuled, a little waved; blackish-purple, rayed with yellowish-white, rays sharp, very distinct, interior iridescent-horny, subtransparent.

Hab. --- ?

Chiefly characterized by the very decided outline of the rays.

Species 81. (Mus. Cuming.)

PATELLA NUTTALLIANA. Pat. lestá ovatá, acuminatoconvexá, apice subobtusá, rudè striatá, striis hic illic obsoletis; lutescente-albá, strigis irregularibus ustulatonigris vividè radiatá, intus albá, margine nigro maculatá.

NUTTALL'S LIMPET. Shell ovate, acuminately convex, rather obtuse at the apex, rudely striated, strice here and there obsolete; yellowish-white, rayed with vivid burnt-black irregular streaks, interior white, margin blotched with black.

Hab. Oregon.

An erect acuminately convex shell, rather compressed at the sides, painted throughout with very striking zebralike burnt-black stripes.

Species 82. (Mus. Cuming.)

l'ATELLA LANX. Pat. testá hexagono-ovatá, anticè attenuatá, subplano-depressá, rudè angulatá et striatá, angulis obtusis; nigrá, ad ungulos albicante, intus cærurulescente, medio nigricante-castaneá, lineatá, margine nigrá.

THE PLATTER LIMPET. Shell hexagonally ovate, atte-

nuated in front, rather flatly depressed, rudely angled and striated, angles obtuse; black, whitish at the angles, interior bluish, blackish-chestnut in the middle, lineated, black at the margin.

Hab. Japan.

A depressed roughly angled shell, painted black, except on the angles and in some of the interstices.

Species 83. (Mus. Cuming.)

Patella amussitata. Pat. testá ovatá, anticò subattenualá, convexò-depressá, apice subantico, densè striatá, striis obtusè elevatis, subscabrosis, paululum undulatis; virescente vel olivaceo-luteá, purpureo obscurà maculatá et radiatá, et indistinctè albipunctatá, intus iridescente-corneá, subpellucidá.

THE MOSAIC LIMPET. Shell ovate, a little attenuated in front, convexly depressed, apex rather anterior, densely striated, striæ obtusely raised, subscabrous, a little waved; greenish or olive-yellow, obscurely spotted and rayed with purple, and indistinctly white-dotted, interior iridescent-horny, subpellucid.

Hab. China and the Philippine Islands.

A depressly convex subhorny shell, densely scabrously striated, olive-green or yellowish, freekled with purple and white dots.

Species 84. (Mus. Cuming.)

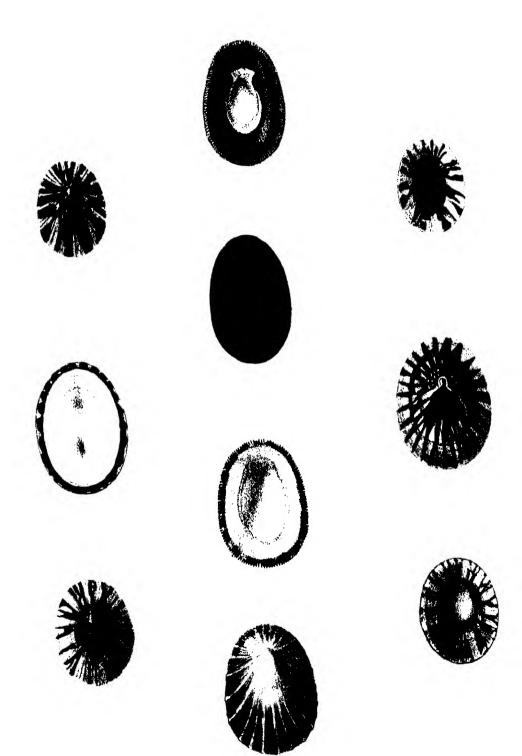
PATELLA NIGRO-SULGATA. Pat. testá ovatá, solidiusculá, radiatim sulcatá, sulcis angustis, subdistantibus; rudò cretaccá, albá, sulcis plus minus nigro-tinctis, intus lutescente-albá, margine obscurè lineato.

THE BLACK-GROOVED LIMPET. Shell ovate, rather solid, radiately grooved, grooves narrow, rather distant; rough chalk-white, grooves more or less black, interior yellowish-white, border faintly lineated.

Hab. ---- ?

A peculiar chalk-white species, linearly grooved throughout, the grooves being narrow, rather impressed, and blackstained.





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PLATE XXXI.

Species 85. (Mus. Cuming.)

PATELLA DEPSTA. Pat. testá ovatá, tenni, subdepressá, medio elevatá, ad latera subcompressá, apice acuto, anticè minutè uncinato, radiatim striatá, striis prope marginem elevatis; rufo-castaneá, virescente-luteo interdum obscurè radiatá, intus livido-corneá.

THE TANNED LIMPET. Shell ovate, thin, rather depressed, raised in the middle, rather compressed at the sides, apex sharp, anteriorly minutely hooked, radiately striated, striæ raised towards the margin; reddish-chestnut, sometimes faintly rayed with greenish-yellow, interior livid-horny.

Hab. Macao and Island of St. Paul.

A nearly smooth reddish-chestnut shell, with a sharp minutely hooked apex.

Species 86. (Mus. Cuming.)

PATELLA LUZONICA. Pat. testá rotundato-ovatá, subdepressá, radiatim tenniliratá, liris granulatis, apice acuto, antico, minutè uncinato; pellucido-luteá, subcorneá, maculis grandibus nigris promiscuè inquinatá, intus pellucidá, subiridescente, medio intensè castaneá.

THE LUZON LIMPET. Shell rotundately ovate, rather depressed, radiately finely ridged, ridges granuled, apex sharp, anterior, minutely hooked; transparent-yellow, rather horny, promiscuously stained with large black blotches, interior transparent, subiridescent, dark chestnut in the middle.

Hab. Island of Luzon, Philippines; Cuming.

Of bright transparent-yellow substance, stained with large promiscuous blotches of black, characteristic in pattern and distribution.

Species 87. (Mus. Cuming.)

PATELLA VERRICULATA. Pat. testá ovatá, convexá, interdum subdepressá, apice subantico, obtuso, densè tenuistriatá, striis paululum undulatis; lutescente aut virescente, fusco-niyro plus minus densè strigatá et reticulatá, intus cærulescente-albá, margine latiusculo, niyro-maculato.

THE NETTED LIMPET. Shell ovate, convex, sometimes rather depressed, apex subanterior, obtuse, densely finely striated, strice a little waved; yellowish or greenish, more or less thickly streaked and netted with

brown-black, interior bluish - white, border rather broad, black-spotted.

Hab. California.

The characteristic painting of this species is a densely woven brown-black network, which, except in the vicinity of the apex, is more or less filled up, or broken into streaks.

Species 88. (Mus. Cuming.)

Patella ustulata. Pat. testă subquadrato-ovată, antice paululum attenuată, postice convexo-depressă, antice tumido-umbonată, apice obluso, radiatim elevato-striată, striis prope marginem scabrosis; ustulato-rufă, fasciis angustis albis subdistantibus nitide radiată, striis prope marginem plus minus nigris, intus albă.

THE SCORCHED LIMPET. Shell somewhat squarely ovate, a little attenuated in front, posteriorly convexly depressed, anteriorly tumidly umbonated, apex obtuse, radiately elevately striated, striæ scabrous next the margin; burnt-red, neatly rayed with rather distant narrow white bands, striæ more or less black next the margin, interior white.

11ab. --- ?

Nothing is known of the locality of this very characteristic species, fringed, as it were, with burnt-brown and black colouring, interrupted with a regular series of distinct narrow white bands.

Species 89. (Mus. Cuming.)

PATELLA SCALATA. Pat. testá ovatá, subacutè convexá, apice vix centrali, radiatim obtusè striatá, et hic illic lineari-sulcatá; livido-albicante, fasciis nigris peculiariter bifurcatis aut diagonaliter lineari-strigutis radiatá, intus subpellucido-corneá.

THE LADDERED LIMPET. Shell ovate, rather sharply convex, apex scarcely central, radiately obtusely striated, and here and there linearly grooved; livid-white, rayed with black bands, peculiarly bi-forked, or diagonally linearly streaked, interior subtransparent horny.

Hab. Philippine Islands; Cuming.

Distinguished by a characteristic pattern of black diagonally blotched and barred rays, upon a livid-white ground.



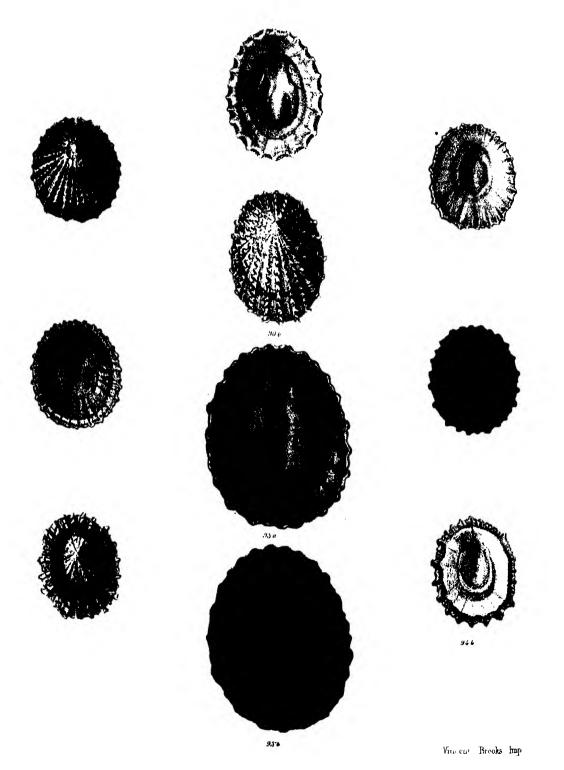


PLATE XXXII.

Species 90. (Mus. Cuming.)

PATELLA ACULEATA. Pat. testá suboblongo-ovatá, tumido-conoideá, apice antico, radiatim costatá, costis acuts compressis, aculeato-squamatis; albá, aurantio-ferrugiueo tinctá, intus albicante, aurantio tinctá.

THE PRICKLY LIMPET. Shell somewhat oblong-ofate, tumidly conoid, apex anterior, radiately ribbed, ribs sharply compressed, prickly-scaled; white, tinged with orange-rust, interior whitish, orange-tinged.

Hab. --- ?

A deeply convex shell, rayed throughout with very characteristic prickly-scaled narrowly compressed ribs.

Species 91. (Mus. Cuming.)

PATELLA GUTTATA. Pat. testá orbiculato-ovatá, subdepressá, apice antico, radiatim liratá, liris in nodulis irregularibus disruptis; albidá, plus minus nigrotinctá, nodulis intense nigris, intus cærulescente, medio rufescente.

THE DROP-MARKED LIMPET. Shell orbicularly ovate, rather depressed, apex anterior, radiately ridged, ridges broken up into irregular nodules; whitish, more or less stained with black, nodules intense black, interior bluish, reddish in the middle.

D'Orbieny, Moll. des Isles Canaries, vol. ii. p. 98. pl. 7.5 f. 13, 15.

Ilab. Teneriffe, Canaries.

The radiating ridges of black nodules in this species, constitute a very characteristic feature.

Species 92. (Mus. Cuming.)

PATELLA DIRA. Pat. testá ovatá, erecto-conoideá, dense radiatim costatá et liratá, costis lirisque in verruculis creberrime disruptis; intense cæruleo-atrá, intus subiridescente.

THE DISMAL LIMPET. Shell ovate, erectly conoid, densely radiately ridged and ribbed, ribs and ridges very

closely broken up into small warts; dark blue-black, subiridescent in the interior.

Hab. ---- 9

Although a similarity prevails between the figures of this and the preceding species, they are very different; P. dira being of deep erectly conical form, rayed throughout with close-set ribs and ridges, crenated with small tunid warts.

Species 93. (Mus. Cuming.)

Patella imbricata. Pat. testã ovată, tumido-convexă, apice antico, obtuso, radiatim multicostată, costis confertis, vix elevatis, undique dense acute imbricatis; intense cæruleo-nigră, intus plumbeo-cæruleă, medio anrantio-ferrugineă.

THE TILED LIMPET. Shell ovate, tumidly convex, apex anterior, obtuse, radiately many-ridged, ribs close-set, scarcely raised, everywhere densely sharply imbricated; dark blue-black, interior lead-blue, orangerust in the middle.

Hab. New Zealand.

Of very regular turnidly convex growth, beautifully densely imbricated throughout.

Species 94. (Mus. Cuming.)

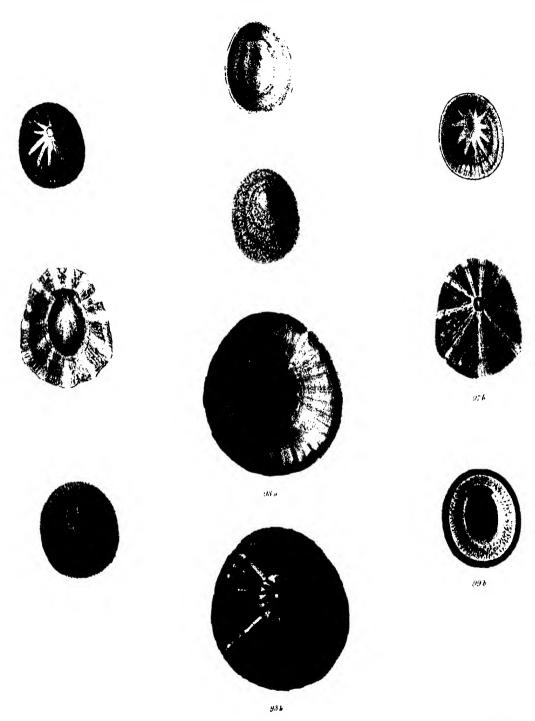
PATELLA SQUAMIFERA. Pal. testá ovatá, subdepressá, orassiusculá, apice fere centrali, radialim rugosè costatá et livatá, costis lirisque irregulariter rude squamatis; albidá, cinereo et nigro tinctá, intus cærulescente-albá.

THE SOALY LIMPET. Shell ovate, somewhat depressed, rather thick, apex nearly central, radiately roughly ribbed and ridged, ribs and ridges irregularly rudely scaled; whitish, tinged with ash and black, interior bluish-white.

Hab. --- P.

This is a solid ash-coloured shell, roughly sculptured throughout with irregular scaly ribs and ridges.

Patella .Pl.XXXIII.



PATELLA:

PLATE XXXIII.

Species 95. (Mus. Cuming.)

Patella sanguinalis. Pat. testă suboblongo-ovală, tenni, pellucidă, lateraliter leviter compressă, apice subacuto, antico, radiatim dense irregulariter striată; pallide corucă, lineis tennibus pallide sanguineis undique undato-reticulată.

THE BLOOD-TINGED LIMPET. Shell suboblong-ovate, thin, transparent, slightly compressed at the sides, apex rather sharp, anterior, radiately densely irregularly striated; pale horny, everywhere wave-reticulated with pale red thin lines.

Ilab. —— ?

Of thin subtransparent horny texture, and rather compressly ovate form, delicately painted throughout with a network of pale red waved lines.

Species 96. (Mus. Cuming.)

Patella Stellularia. Pat. testă orată, antice vix attenuată, subconvexă, radiatim noduloso-lirată; castaneo-brunneă, **ste**llă albă ad apicem, intus pellucidă, subiridescente.

THE STARRED LIMPET. Shell ovate, scarcely attenuated in front, slightly convex, radiately nodosely ridged; chestnut-brown, with a white star on the apex, interior pellucid, subiridescent.

Quoy and GAIMARD, Voyage de l'Astrolabe, vol. iii. p. 347. pl. 70. f. 18 and 20.

Hab. New Zealand.

Readily distinguished by a rather large irregular starpattern of white upon a chestnut-brown ground.

Species 97. (Mus. Cuming.)

PATELLA ARTICULATA. Pal. testá hexagono-ovatá, anticè allennatá, subplano-depressá, undique radiatim liratá et striatá; olivaceá, radiis lutescentibus ad angulos, liris purpureo-nigro et albo articulatis, intus subargenteá.

THE ARTICULATED LIMPET. Shell hexagonally ovate, attenuated in front, rather flatly depressed, everywhere radiately ridged and striated; olive, with yellow rays at the angles, ridges articulated with purple-black and white, interior rather silvery.

Hab. Island of Ticao, Philippines.

A rather compressly flattened species, divided on the surface into seven to nine subangular areas, rayed with neatly articulated ridges.

Species 98. (Mus. Cuming.)

Patella Childensis. Pal. testă rotundato-ovată, antice subacuminată, acute conoideă, elevată, apice subcentrali, radiatim costată, costis retusis, subobsoletis; funco-nigro irregulariter tinctă et strigată, interstitiis albidis perpaucis promiscuis, intus subargenteă.

THE CHILDE LIMPET. Shell rotundately ovate, a little acuminated in front, sharply conoid, clevated, apex nearly central, radiately ribbed, ribs worn, nearly obsolete; irregularly stained and streaked with smoky-black, whitish, interstices very few and promiscuous, interior a little silvery.

Hab. Island of Chiloe; Cuming,

A characteristic deeply conoid shell, almost entirely smoky-black, .rust-tinged towards the apex, with white appearing promiseuously at remote intervals.

Species 99. (Mus. Cuming.)

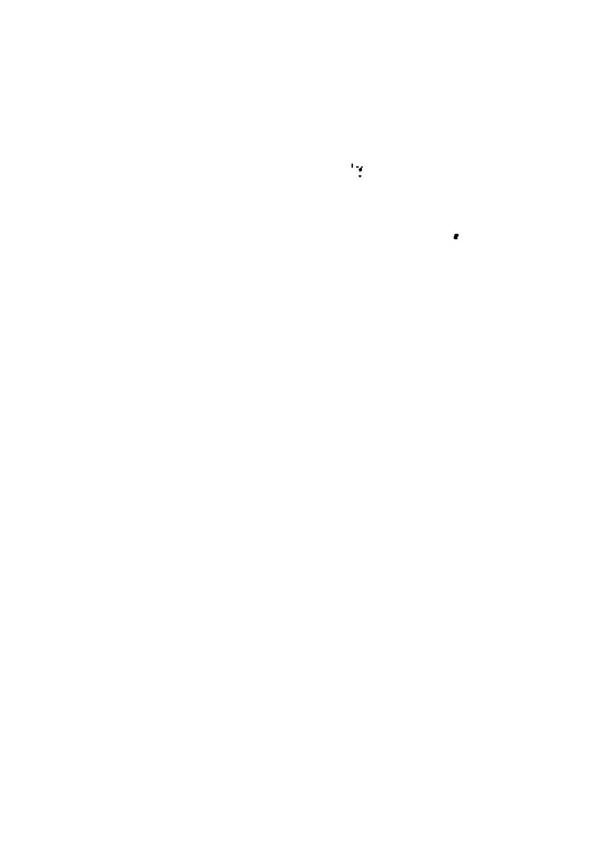
Patella striata. Pat. testă rotundato-ovată, subdepressă, apice valde antico, acuto, radiatim dense lirulă, lirix circa apicem subobsoletis; virescente-olivaceă, intus vivide virescente, nucleo fuscescente, margine latius-culo, nigricante-olivaceo.

THE STRIATED LIMPET. Shell rotundately ovate, rather depressed, apex very anterior, sharp, radiately densely ridged, ridges nearly obsolete about the apex; greenish-olive, interior bright green, nucleus light brown, border rather broad, blackish-olive.

Patelloidea striata, Quoy and Gaimard, Voyage de l'Astrolabe, Moll. pl. 71. f. 8-11.

Hab. Galapagos Islands; Cuming.

An obscure greenish-olive species, with mostly a bright green interior and rather broad dark olive border. The surface, which is rather depressed, is densely radiately elevately striated, but the striæ are only faintly developed round the apex.



Patella, Pl.XXXIV.

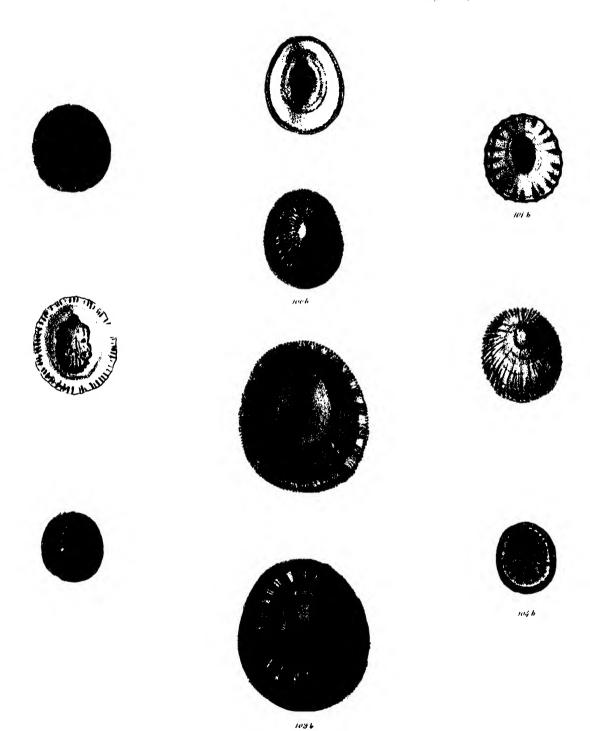


PLATE XXXIV.

Species 100. (Mus. Cuming.)

PATELLA LACINIATA. Pat. testá oblongo-ovatá, subacutè convexá, lateraliter subcompressá, radiatim densè elevato-striatá; albidá, lineis numerosis tenuibus rufis undiquè promiscuè reticulato-radiatá, reticulo circa anicem interruptè pervio, intus cærulescentr-albá.

THE FRINGED LIMPET. Shell oblong-ovate, rather sharply convex, laterally slightly compressed, radiately densely elevately striated; whitish, reticulately rayed everywhere promiscuously with numerous fine red lines, network round the apex interruptedly open, interior bluish-white.

Hab. Australia.

Distinguished by a densely pencilled elongated network of red-brown lines, which is more or less interruptedly open around the apex.

Species 101. (Mus. Cuming.)

Patella Leucopha. Pat. testă rotundato-ovată, depressiusculă, medio subacute elevată, radiatim obscure costată et striată, costis irregularibus, fere obsoletis; nigricante-viridi, maculis albis prope marginem obscure biscriatim tessellată, intus virescente-albă, medio intense castaneă.

THE WHITE-SPOTTED LIMPET. Shell rotundately ovate, rather depressed, somewhat sharply raised in the middle, radiately obscurely ribbed and striated, ribs irregular, almost obsolete; very dark green, obscurely tessellated near the margin with two rows of white blotches, interior greenish-white, dark chestnut in the middle.

NUTTALL, Jay's Catalogue of Shells, p. 38.

Hab. Upper California.

A very dark greenish shell, encircled near the margin with two rows of faint whitish blotches.

Species 102. (Mus. Cuming.)

PATELLA PENICILLATA. Pat testá ovatá, subplano-convexá, radiatim rugoso-liratá et sulcatá, plerumque multo erosá, apice parvo, acuto, antico; albid intense fusco penicillatis, intus albidá, fusco medio el ad marginem lineatá.

THE PENCILLED LIMPET. Shell ovate, rather flatly convex, radiately roughly ridged and grooved, generally much eroded, apex small, sharp, anterior; whitish, grooves pencilled with dark brown, interior whitish, lineated in the middle and at the edge with brown.

Hab. Valparaiso.

A rather flatly convex eroded white species, pencilled in the radiating grooves with interrupted brown.

Species 103. (Mus. Cuming.)

Patella canescens. Pat. testá ocatá, unticò subattenuatá, convexá, radiatim rugoso-liratá et sulcatá; tiris promiscuò allis et nigris, intus subnettucidá.

THE GREY-HAIRED LIMPET. Shell ovate, a little attenuated in front, radiately rugosely ridged and grooved; ridges promiseuously black and white, interior subpellucid.

Hab. ---- ?

This shell is much worn round the apex, but a very characteristic black and white sculpture covers the remaining surface.

Species 104. (Mus. Cuming.)

Patella tenena. Pat lesta ovată, tenniculă, depressă, apice parvo, acuto, antico, radiatim strictă, striis elevatis, sulfuniculatis, striis minutis concentricis cancellatis; lutescente, nigricante-viridi promiscue maculată et variegată, intus cæralescente, subpellucidă.

THE THIN LIMPET. Shell ovate, rather thin, depressed, apex small, sharp, anterior, radiately striated, striaraised, somewhat corded, cancellated with minute concentric striar; yellowish, promiscuously spotted and variegated with blackish-green, interior bluish, subtransparent.

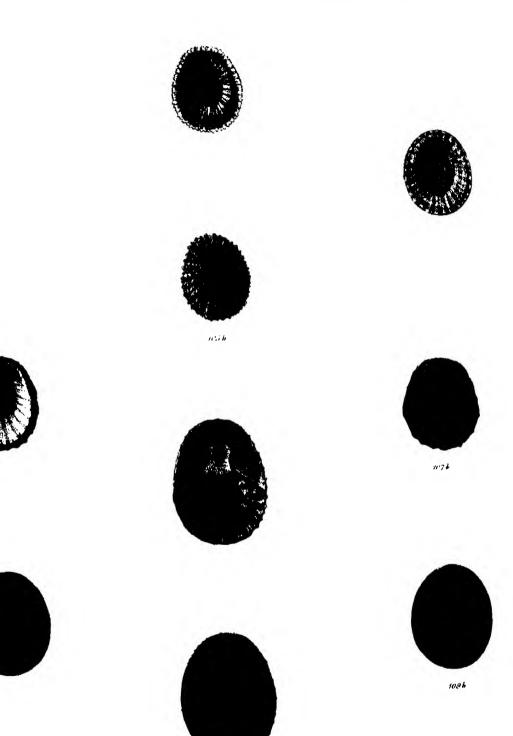
C. B. Adams, Contributions to Conchology.

Hab. --- ?

A depressed yellowish shell, prettily variegated and blotched with blackish-green, which is seen through in the interior.



Patella', Pl. XXXV.



108 b

PLATE XXXV.

Species 105. (Mus. Cuming.)

PATELLA FUNGUS. Pat. testá ovalá, depresso-conoideá, apice elevato, subcentrali, radiatim dense costatá et liratá, costis lirisque angustis, parvis, undique tenuinodulatis; sordide cinereá, circa apicem et prope marginem rufescente-fusco punctatá, nodulis albicantibus, intus semipellucido-iridescente.

THE FUNGUS LIMPET. Shell ovate, depressly conoid, apex raised, subcentral, radiately densely ribbed and ridged, ribs and ridges narrow, small, everywhere finely noduled; dull ash, dotted round the apex and near the margin with reddish-brown, with nodules whitish, interior semi-transparent, iridescent.

Tectura fungus, Meuschen.

Hab. West Indies.

A dull ash depressly conoid shell, densely rayed with finely noduled ribs and ridges, sparingly marked with reddish-brown dots, which are seen most distinctly in the interior of the shell.

Species 106. (Mus. Cuming.)

Patella flocata. Pat. testá ovatá, convexo-depressá, apice anticè inclinato, planato, radiatim tenniliratá, liris filosis, subundatis, striis concentricis eximiè crenalatis; olivaceo-viridi, floccis alhis profusè aspersá, intus vividè cæruleo-viridi.

THE SNOW-FLAKE LIMPET. Shell ovate, convexly depressed, apex inclined anteriorly, flattened, radiately finely ridged, ridges thread-like, slightly waved, delicately crenulated with concentric strice; olive-green, profusely sprinkled with white flakes, interior vivid blue-green.

Hab. New Zealand; Earl.

A delicate rather compressly convex species, sculptured with fine thread-like slightly waved ridges, and profusely radiately dashed with white flakes upon a dark olive-green ground.

Species 107. (Mus. Cuming.)

Patella Umbonata. Pat. testá globoso-convexá, apice omninò antico, acutè uncinato, radiatim liratá, liris paucis, irregularibus, obtusè crenatis; cinereo-nigrá, punctis albis impressis sculpturatá, punctis magis numerosis versus marginem, intus cærulescente-albá, medio castaneá

THE UMBOED LIMPET. Shell globosely convex, apexaltogether anterior, sharply hooked, radiately ridged, ridges few, irregular, obtusely crenated; ash-black, sculptured with white impressed punctures, punctures more numerous towards the margin, interior bluish-white, chestnut in the middle.

NUTTALL, Jay's Catalogue of Shells, p. 37. Hab. Upper California.

A globosely convex species, with the apex sharply inclined over the front, of a rough ash-black substance, chipped, as it were, with white punctures, which are more numerous as they approach the basal margin.

Species 108. (Mus. Cuming.)

Patella affinis. Pat. testá oblongo-ovatá, depressá, apice valdè antico, parro, subacuto, radiatim liratá el striatá, liris striisque numerosis, obtusis, subundatis; nigricante-olivaceá, radiis latis obliquè sanguineo-maculatis ornatá, intus subpellucido-iridescente.

The allied Limpet. Shell oblong-ovate, depressed, apex very anterior, small, rather sharp, radiately ridged and striated, ridges and striae numerous, obtuse, slightly waved; dark olive, ornamented with obliquely blood-blotched broad rays, interior subtransparent, iridescent.

Hab. New Zealand.

Two or three species, it will be seen, have been described of this same typical form from New Zealand, all essentially distinct in regard to sculpture. In the present species the surface is carved throughout with simple smooth slightly waved close-set ridges and strice.

Species 109. (Mus. Cuming.)

PATELLA PRUINOSA. Pat. testá subdepresso-ovatá, cornea, apice antico, minutè acutè uncinato, radiatim tennissimè liratá, liris irregularibus, undatis, striis minutis concentricis decussatis; subpellucido-olivaceá, punctis vividè cærulco-viridibus radiatá, maculis nigricante-olivaceis anticè tinctá.

THE PROSTED LIMPET. Shell subdepressly ovate, horny, apex anterior, minutely sharply hooked, radiately very finely ridged, ridges irregular, slightly waved, decussated with minute concentric striæ; subpellucid-olive, rayed with bright blue-green dots, and stained in front with dark olive blotches.

Krauss, Südafric. Mollusken, p. 56. pl. 3. f. 9. Hab. Table Bay.

A semitransparent horny depressly ovate shell, with a small sharply hooked apex, comparatively smooth, distinguished by a peculiar rayed sprinkling of blue-green dots of a bright metallic hue.





Patella , Pl , XXXVI.













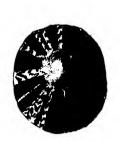














Vincent

PLATE XXXVI.

Species 110. (Mus. Cuming.)

PATELLA LENTIGINOSA. Pat. testă ovată, convexă, apice antice inclinato, obtuso, radiatim striată, striis plus minus erosis; albidă, nigro-castaneo interrupte radiată et promisene undato-lentiginosă, intus cærulescenteultă.

THE FRECKLED LIMPET. Shell ovate, convex, apex inclined anteriorly, obtuse, radiately striated, striated more or less croded; whitish, interruptedly rayed and promiscuously wave-freekled with blackish-chestnut, interior bluish-white.

Hab. ---- ?

This species is particularly well characterized by the promiscuous wave-freekled style of its dark chestnut painting.

Species 111. (Mus. Cuming.)

Patella Araneosa. Pat. lestá suboblongo-ovatá, antice attenuatá, tenniculá, lateraliter compressá, apice subacule acuminato, antico, radiatim dense striatá, striis funiculatis, striis concentricis minute crenulatis; olicaceo-viridi, lineis opaco-albis numerosis conspicue radiatá, intus semipellucidá.

THE CORWER LIMPET. Shell suboblong-ovate, attenuated in front, rather thin, compressed at the sides, apex rather sharply acuminated, anterior, radiately densely striated, strize corded, minutely crenulated with concentric strize; olive-green, conspicuously rayed with numerous opuke-white lines, interior semitransparent.

Hab. Australia.

A somewhat depressed species, pinched and sharply pointed towards the apex, which inclines very much to the front, and of a dull greenish-olive colour, curiously rayed throughout with fine opake-white lines.

Species 112. (Mus. Cuming.)

Patella Oregona. Pat. testa globoso-conoidea, apice antico, acutè acuminato, uncinato, radiatim obtuse costata, costis nodatis, subcorrugatis; nigra, punctis albis numerosis, interdum nigro et albo strigata, intus cærulescente-alba, medio intense castanea.

THE OREGON LIMPET. Shell globosely conoid, apex anterior, sharply acuminated, hooked, radiately ob-

tusely ribbed, ribs noduled, slightly wrinkled; black, marked with numerous white punctures, strenked with black and white, interior bluish-white, deep chestnut in the middle.

NUTTALL, Jay's Catalogue of Shells, p. 38.

Hab. Mouth of the Oregon River, Upper California.

Of the same peculiar type as *P. umbounta* of the preceding Plate, and possibly only a variety of that species. It is rayed with more prominent swollen ribs, and is more sharply acuminated and hooked at the apex.

Species 113. (Mus. Cuming.)

Patella Borneensis, Pat. testá rotundato-ovatá, subdepressá, apice subcentrali, obtuso, radiatim obscurè striatá, striis plus minus erosis; atrá, radiis irregularibus albis nigro-interruptis ornatá, intus carulescente, medio patlidè castaneá, margine nigro, lato,

THE BORNEO LIMPET. Shell rotundately ovate, rather depressed, apex nearly central, obtuse, radiately obscurely striated, strice more or less eroded; black, ornamented with irregular black interrupted white rays, interior bluish, light chestnut in the middle, margin black, broad.

Hab. North coast of Borneo.

A depressed, rudely formed species, dull black, irregularly rayed with white rays interrupted with black, the interior being of a blue tinge, with an unusually broad black border.

Species 114. (Mus. Cuming.)

Patella stellaris. Pat testá subdepresso-ovatá, apice centrali, costis septem peramplis tumidis radiatis, ad marginem prolongatis, interstitiis lirá angustá brevi; sordide albá, intus albá, medio pallide castaneo-rufá.

THE STAR LIMPET. Shell subdepressly ovate, apex central, with seven large swollen radiating ribs, prolonged over the margin, interstices with a short narrow ridge; dull white, interior white, pale chestnutred in the middle.

Patelloida stellaris, Quoy and Gaimard, Moll. Voy. de l'Astrolabe, vol. iii. p. 356. pl. 71. f. 1-4.

Hab. New Holland.

Distinguished from all other species of the genus, by its peculiarly swollen stellar radiating ribs.





















118 b

119 b

PLATE XXXVII.

Species 115. (Fig. 115 a, b, and 118 a, b, Mus. Cuming.)

PATELLA ELEGANS. Pat. testã ovatá vel subquadrato-rotundatá, depressiusculá, apice subcentrali, radiatim tenniliratá et sulcatá; carneo-albidá, radiis spadiccis et nigris irregularibus, sæpè furcatis, circa apicem obscurè albo marmoratis ornatá, intus lacteá, medio pallide fuscescente, margine conspicue nigro tessellato.

THE ELEGANT LIMPET. Shell ovate or somewhat squarely rotundate, rather depressed, apex subcentral, radiately finely ridged and grooved; flesh-white, ornamented with irregular bay and black rays, often forked, obscurely mottled around the apex with white, interior milk-white, pale brown in the middle, margin conspicuously tessellated with black.

PHILIPPI, Abbild. und Besch. Conch. Patella, pl. 2. f. 2.

Hab. La Guayra.

The specimens represented at Fig. 115 and 118 of this Plate prove, on minute examination, to be different forms of the same species. The dark pencilled rays are peculiarly broken up and white-mottled about the apex, and conspicuously neatly tessellated on the inner margin.

Species 116. (Mus. Cuming.)

Patella cineliata. Pat. testă ovată, subconică, apice centrali, elevato, radiatim costată, costis angustis, subdistantibus, interstitiis obscure clathratis; lutescentealbă, costis opaco-albis, interstitiis promiscue sanguineo-tinctis, intus opaco-albă.

THE JEWELLED LIMPET. Shell ovate, subconical, apex central, raised, radiately ribbed, ribs narrow, rather distant, interstices obscurely latticed; yellowish-white, ribs opake-white, interstices promiscuously blood-stained, interior opake-white.

Hab. Honduras; Dyson.

A very characteristic blood-red stained shell, the surface being obscurely latticed between radiating opake-white ribs. Species 117. (Mus. Cuming.)

PATELLA STIPULATA. Pat. testă suboblongo-ocată, antice subacuminată, depresso-convexă, apive centrati, subacuto, radiatim tirată, tiris rudibus, confertis, valde irregularibus, subundulatis, margine subacute productis; virescente-nigră, lineis perpancis albidis obscure radiată, intus intense cæruleo-viridi, margine nigricante.

THE THATCHED LIMPET. Shell suboblong-ovate, a little acuminated in front, depressly convex, apex central, rather sharp, radiately ridged, ridges rude, close-set, very irregular, a little waved, rather sharply produced at the margin; greenish-black, faintly rayed with a few whitish lines, interior deep blue-green, margin blackish.

Hab. Panama.

A dark closely irregularly wave-ridged shell, the ridges here and there produced over the margin. The interior is of a peculiar deep blue-green.

Species 119. (Mus. Cuming.)

Patella scabra. Pal. lestá oralá, anticè subaltenualá, depresso-conoideá, undique creberrimè scabroso-costatá et liratá, apice subantico, aento, paululum uncinato; lutescente-albá, ferrugineo-fusco undique densè tessellatá, intus albá.

The Rough Limper. Shell ovate, a little attenuated in front, depressly conoid, everywhere closely scabrously ribbed and ridged, apex subanterior, sharp, a little hooked; yellowish-white, densely tessellated throughout with rust-brown, interior white.

NUTTALL, Jay's Catalogue of Shells.

Hab. Upper California.

A very characteristic species, both in sculpture and colouring, sometimes of much larger size than the specimen here figured, with the character, however, in that case more or less obscured by abrasion.



Patella , Pl . XXXVIII.



























PLATE XXXVIII.

Species 120. (Mus. Cuming.)

Patella lacunosa. Pat. lestá oblongo-ovatá, subelevatoconvideá, apice subcentrali, obtuso, radiatim costatá,
costis tumidiusculis, obtusis, interstitiis subexcavatis,
fortiter strialis; fuscescente-albidá, costis albis, intus
pellucido-albá.

THE GUTTERED LIMPET. Shell oblong-ovate, rather elevately conoid, apex nearly central, obtuse, radiately ribbed, ribs rather swollen, obtuse, interstices rather exeavated, strongly striated; brownish-white, ribs white, interior transparent-white.

Hab. ---- ?

Chiefly distinguished by its oblong-oval form and prominent radiating ribs, which are somewhat swollen and

Species 121. (Mus. Cuming.)

Patella fenestrata. Pat. lestá ovatá, antice subattennatá, tenniculá, depresso-conoideá, apice prominente, subobluso, radiatim dense tennistriatá, striis subundulatis; virescente, cinerco-olivaceo undique tenuissime tessellato-maculatá, intus cærulescente-cinereá, margine lato, nigro.

THE WINDOWED LIMPET. Shell ovate, a little attenuated in front, rather thin, depressly conoid, apex prominent, rather obtuse, radiately densely finely striated, striae a little waved; greenish, finely tessellately mottled with ash-olive, interior bluish-ash, with a broad black border.

NUTTALL, Jay's Catalogue of Shells, p. 38. Hab. Upper California.

The colouring of this species is peculiar, the outer surface being densely mottled with a very fine network of ash-olive upon a greenish ground, whilst the interior is characterized by a broad black border.

Species 122. (Mus. Cuming.)

Patella Puncturata. Pat. lestá subquadrato-ovatá, apice centrali, subobtuso, radiatim costatá, costis irregularibus, nunc distinctis, nunc subobscuris, liris concentricis fere obsoletis cancellatis, super costis squamato-pustulatis; opaco-albá, punctis sanguineis paucis promiscue aspersá, intus opaco-albá.

THE ROSE-DOTTED LIMPET. Shell somewhat squarely

ovate, apex central, rather obtuse, radiately ribbed, ribs irregular, sometimes distinct, sometimes rather obscure, cancellated with nearly obsolete concentric ridges, squamately pustuled on the ribs; opake-white, promiscuously sprinkled with a few blood-red dots, interior opake-white.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. vii. p. 537. Hab. Honduras; Dyson.

This appears to be the species imperfectly described by Lamarck under the above name from Barbadoes. Its chief characteristic is the sprinkling of blood-rose dots upon an opake-white ground, and squamately pustuled ribs, which are more or less worn.

Species 123. (Mus. Cuming.)

Patella achates. Pal. testă orată, tenniculă, convexodepressă, radialim dense striută, striis hic illic tenne funiculatis; intense nigră, radiis albis fulguratis irregulariter variegată, intus carulescente, margine late nigro-variegato.

THE AGATE LIMPET. Shell ovate, rather thin, convexly depressed, radiately densely striated, strine here and there finely corded; intense black, irregularly variegated with lightning-marked white rays, interior bluish, with a broad black variegated border.

Hab. --- ?

A strikingly characteristic species in respect of painting, densely rayed with fine corded striae.

Species 124. (Mus. Cuming.)

PATELLA DUNKERI. Pal. lestá oratá, conoideá, lateraliter subcompressá, apice anticè inclinato, subuncinato, lenniculá, subpellucidá, radiatim densè elevatostriatá, interstitiis minutissimè cuncellatis; cinereocorneá, pallidè radiatá.

DUNKER'S LIMPET. Shell ovate, conoid, a little compressed at the sides, apex inclined anteriorly, slightly hooked, rather thin, subpellucid, radiately densely elevately striated, interstices very minutely cancellated; ash-horny, faintly rayed.

KRAUSS, Südafric. Moll. p. 55. pl. 3. f. 14. Hab. Port Natal.

A delicately rayed ash-horny subtransparent shell, elaborately sculptured with raised striæ, the interstices between which are very minutely cancellated.

Patella , Pl.XXXX.

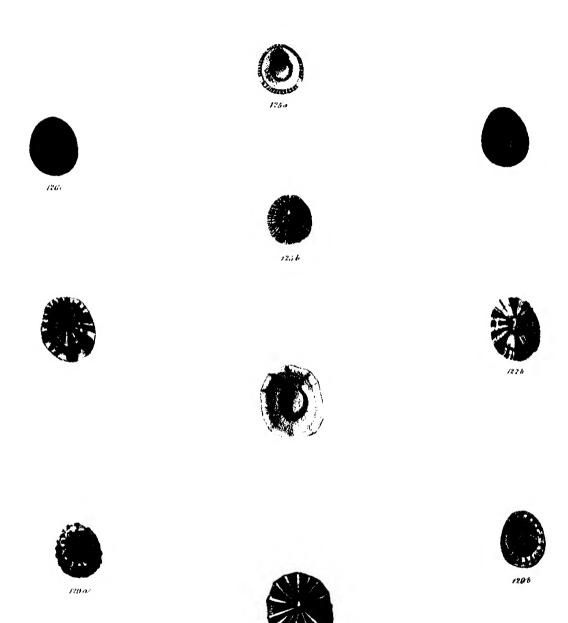


PLATE XXXIX.

Species 125. (Mus. Cuming.)

Patella Cubensis. Pat. testă rotundato-ocată, pyramidali-conoideă, crassiusculă, apice subcentrali, elecato, radiatim lineari-tirată et sulcată, liris flexuosis, interruptis, furcatis; liris albis, sulcis nigris, intus albă, medio intense castancă, margine nigro-lineato.

THE CUBA LIMPET. Shell rotundately ovate, pyramidally conoid, rather thick, apex nearly central, raised, radiately linearly ridged and grooved, ridges flexuous, interrupted and forked; ridges white, grooves black, interior white, dark chestuut in the middle, border black, lineated.

Hali. Cuba.

A solid, pyramidally conoid shell, peculiarly sculptured with promiseuously forked white ridges, the narrow interstices between which are black.

Species 126. (Mus. Cuming.)

Patella Grano-striata. Pal. lestá depresso-ovatá, tenuivitá, anticè atlenuatá, apice anticè multo inclinato, radiatim striatis, striis elevatis, tenuè funiculatis, subtilissimè granulatis; livido-nigricante.

THE GRAIN-STRIATED LIMPET. Shell depressly ovate, rather thin, attenuated in front, apex much inclined anteriorly, radiately striated, striae raised, thinly corded, very finely granuled; livid black.

Hab. ---- ?

A thin, very depressed, anteriorly inclined shell, of a livid black line, delicately rayed with characteristic granulated strise.

Species 127. (Mus. Cuming.)

PATELLA JACKSONIENSIS. Pat. testá suboblongo-ovatá, subrudi, apice centrali, elevato, obsoleté radiatim striatá, plus minus erosá; fusco alboque irregulariter radiatá, intus radiatá. The Port Jackson Limper. Shell somewhat oblongovate, rather rude, apex central, raised, obsoletely radiately striated, more or less croded; irregularly rayed with brown and white, rayed in the interior.

Hab. Port Jackson, Australia.

Of a peculiarly rude oblong-ovate growth, variously rayed with brown and white.

Species 128. (Mus. Cuming.)

Patella albicostata. Pat. testá subquadrato-oratá, crassiusculá, rudi, depressá, upice centrali, radiatim rudè costatá, costis obtusis, distuntibus, subirregularibus; costis albidis, interstitiis nigris, intus albã.

THE WHITE-RIBBED LAMPET. Shell squarely ovate, rather thick, rude, depressed, apex central, radiately rudely ribbed, ribs obtuse, distant, rather irregular; ribs white, interstices black, interior white.

C. B. Adams, Contributions to Conchology. *Hab.* Jamaica.

A very characteristic rudely depressed shell, starred with whitish rather distant ribs.

Species 129. (Mus. Cuming.)

Patella Mixta. Pal. testă ocată, tenniculă, conoideă, lateraliter compressă, apice subantico, obsoleté decussatim striată; nigro Inteoque peculiariter marmorală, intus variegată.

THE MOTTLED LIMPET. Shell ovate, rather thin, conoid, compressed at the sides, apex rather anterior, obsoletely decussately striated; peculiarly mottled with black and yellow, variegated in the interior.

IIab. Port Phillip, Australia.

A thin, peculiar mottled shell, with somewhat the aspect of our northern P. testudinalis.



Patella , Pl.XL.

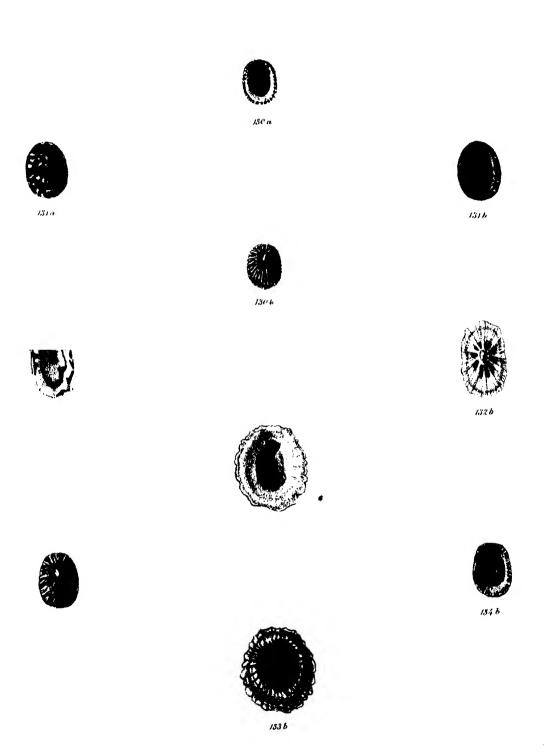


PLATE XL.

Species 130. (Mus. Cuming.)

PATELLA NAVICULA. Pat. testa ovata, elevato-conoidea, crassinsculă, apice subcentrali, radiatim lirată, liris numerosis, prominentibus, versus marginem obsolete grauntatis, interstitiis lira minore granulata: nigricantecinerea, liris albidis, intus medio castanea.

THE LITTLE BOAT LIMPET. Shell ovate, elevately conoid, rather thick, apex nearly central, radiately ridged. ridges numerous, prominent, obsoletely granuled towards the margin, interstices with a smaller granuled ridge; blackish-ash, ridges white, interior chestnut in the middle.

Hab, Mazatlan; Lieut. Shipley, R.N.

The ridges of this little high conical shell have a prominent wrinkle-like appearance.

Species 131. (Mus. Cuming.)

PATELLA CANTHARUS. Pal. testá ovatá, tenniculá, conresă, apice valde autico, acuto, uncinato, lavigată: nigrå, albo irregulariter maculatå, intus nigricantecastaneã,

THE BEETLE LIMPET. Shell ovate, rather thin, convex, apex very anterior, sharp, hooked, smooth; black. irregularly blotched with white, interior blackishchestnut.

Ilab. New Zealand; Earl.

Very characteristic in form and colouring, the apex being sharply hooked and bent over to the anterior margin, whilst the surface is smooth, promiscuously mottled with white blotches upon a black ground.

Species 132. (Mus. Cuming.)

PATELLA CORRUGATA. Pat. testá oblongo-ovatá, valdè depressa, subirregulari, radiatim costatá, costis perpaucis, distantibus, obtusis, corrugatis, apice plus minus croso; albida, costarum interstitiis circa apicem nigris, intus medio castuneá.

THE SHRIVELLED LIMPET. Shell oblong-ovate, very depressed, rather irregular, radiately ribbed, ribs very few, distant, obtuse, wrinkled, apex more or less eroded; whitish, interstices between the ribs black round the apex, interior chestuat in the middle.

Hab. Acapulco.

A depressly flattened oblong species, of irregular growth, rudely sculptured with a few widely distant obtuse ribs, that give the shell a peculiar shrivelled appearance.

Species 133. (Mus. Cuming.)

Patella Plana. Pat. testâ rolundato-ovatá, valdê depresså, planå, irregulari, apice subcentrali, vix elevato, radiatim rade salcată, livis intermediis valde irreqularibus, corrugalis, versus marginem pustulatis; albidá, sulcis cæruleo-nigro tinctis.

THE FLAT LIMPET. Shell rotundately ovate, very depressed, flat, irregular, apex nearly central, scarcely raised, radiately rudely grooved, intermediate ridges very irregular, wrinkled, pustuled towards the margin; whitish, grooves stained with blue-black.

PHILIPPI, Abbild. und Besch. Conch. Patella, pl. 2. f. 3. Hab. Valparaiso,

A very characteristic rudely flattened species, very irregularly wrinkled, ridged, and pustuled.

Species 134. (Mus. Cuming.)

PATELLA MELANOLEUCA. Pat. testá ovatá, elevato-conoidea, crassiuscula, apice subcentrali, radiatim lirata. liris plus minus obsoletis, obscurè granulatis; nigră, albo variegată, intus albă, medio intense castaneă.

THE PIED LIMPET. Shell ovate, elevately conoid, rather thick, apex nearly central, radiately ridged, ridges more or less obsolete, obscurely granulated; black, variegated with white, interior white, dark chestnut in the middle.

GMELIN, Syst. Nat. 13th edit.

IIab. ---

A deep conical shell, of rather stout substance, faintly grain-striated, pied with black and white.



Patella , Pl. XII.

























PLATE XLI.

Species 135. (Mus. Cuming.)

Patella occidentalis. Pat. testá quadrato-ovalá, elevato convexá, radiatim còstalá, costis superficiariis, obtusis, alternatim brevioribus; fuscescente, nigro-tessellatá, costis pellucido-albis, intus albidá.

THE WESTERN LAMPET. Shell somewhat squarely ovate, elevately convex, radiately ribbed, ribs superficial, obtuse, alternately shorter, brownish; tessellated with black, ribs transparent white, interior whitish.

Hab. West Indies.

The alternate ribs of this species do not reach to the apex, and they are all of a transparent white substance, whilst the interstices are confusedly tessellated with black upon a brownish ground.

Species 136. (Mus. Cuming.)

PATELLA PARASTTICA. Pat. testá orbiculari, elevato-converá, cyathiformi, apice anticè inclinato, striatá aut rudè cancellatá; lutescente-albá, cæruleo-nigro vividè rudiatim vel undatim strigatá, intus cærulescente.

THE PARASITIC LIMPET. Shell orbicular, clevately convex, cup-shaped, apex inclined anteriorly, striated or rudely cancellated; yellowish-white, radiately or undately streaked with blue-black, interior bluish.

D'Orbigny, Voy. dans l'Amérique, pl. 81. f. 1 to 3. Hab. Valparaiso (on the rocks); Cuming.

A little raised cup-like shell, variously rayed or waved with blue-black upon a yellowish ground.

Species 137. (Mus. Cuming.)

PATELLA BALANOIDES. Pat. testă ovată, elevato-convexă, radiatim costată, costis angustis, subrudibus, interstitiis concavis; fuscescente-albă, circa apicem punctis nigris promiscue aspersă, intus albă, medio castaneă.

THE BARNACLE LIMPET. Shell ovate, elevately couvex, radiately ribbed, ribs narrow, rather rude, interstices concave; brownish-white, promiscuously sprinkled

round the apex with black dots, interior whitish, chestnut in the middle.

Hab. West Indies.

The ribs of this species are narrow, irregular, and rather rude in structure, with the interstices between them gradually concave. The outer surface of the shell is of a dull stone-white, promiscuously dotted round the apex with black.

Species 138. (Mus. Cuming.)

Patella leucopleura. Pat lestá elevato-conicá, crassiusculá, basi ferè orbiculari, apice oblusá, rudiatim liratá, liris subirregularibus, funiculatis; cærulescentecinereá, liris nigricantibus, intus alhá, margine conspicuè lineato.

THE WHITE-SIDE LIMPET. Shell elevately conical, rather thick, nearly orbicular at the base, obtuse at the apex, radiately ridged, ridges rather irregular, corded; bluish-ash, ridges blackish, interior white, margin conspicuously lineated.

GMELIN, Syst. Nat. 13th edit.

Hab. West Indies.

Particularly distinguished by its raised conical form, rayed throughout with fine blackish corded ridges upon a light slate ground.

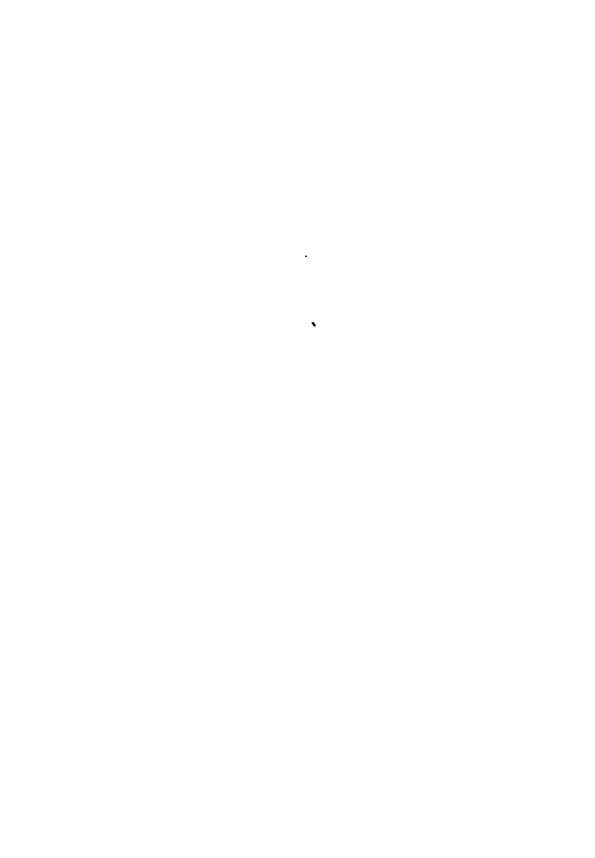
Species 139. (Mus. Cuming.)

PATELLA COFFEA. Pat. testá ovatá, convexo-depressá, radiatim dense lirato-striatá, semper pererosá; intus extusque fusco-nigrá, margine tenue denticulato.

THE COFFEE LIMPET. Shell ovate, convexly depressed, radiately densely ridge-striated, always very much eroded; brown-black within and without, finely denticulated at the margin.

Hab. Valparaiso; Cuming.

A dark brown species, of simple character, always much eroded.





Patella, Pl.XLII























PLATE XLII.

Species 140. (Mus. Cuming.)

PATELLA MAMILLATA. Pat. testá ovatá, anticè vix attenuatá, acutè converá, apice nucinatá, squamarum seriebus numerosis minutis muricato-radiatá, striis concentricis decussatá; sordidè olivaceá, obscurè lateraliter biradiatá, intus cærulescente, maculá castaneá centrali anticè peculiariter productá, margine nigricante, lato.

THE NIPPLE LIMPET. Shell ovate, slightly attenuated in front, sharply convex, hooked at the apex, prickly rayed with numerous ridges of fine scales, decussated with concentric striæ; dirty olive, obscurely laterally two-rayed, interior bluish, with a central chestnut blotch, peculiarly produced anteriorly, margin blackish, broad.

NUTTALL, MS., Mus. Cuming. Hab. Upper California.

The outer surface of this species is prickly rayed throughout with minute scales, whilst in the interior the central chestnut blotch is curiously attenuated and produced in front.

Species 141. (Mus. Cuming.)

Patella uncinata. Pal. testá ovatá, acutè conoideá, apice paululum anticè uncinato, radiatim profusè tenuiliratá, interstiis obscurè cancellatis; albidá, nigricante-fusco tessellatá ant diagonaliter strigatá, intus cærulescente-albá, pellucido-tessellatá et castaneo pallidè tinctá.

THE HOOKED LIMPET. Shell ovate, sharply conoid, apex a little hooked anteriorly, radiately profusely finely ridged, interstices obscurely cancellated; whitish, tessellated or diagonally streaked with blackish-brown, interior bluish-white, transparent tessellated and stained with faint chestnut.

Ilab. --- ?

A very prettily tessellated species, closely finely ridged throughout, the shell being sharply conical and slightly hooked at the apex.

Species 142. (Mus. Cuming.)

l'ATELLA BIRADIATA. Pat. testá suborbiculari, conoideodepressá, apice subcentrali, radiatim striato-liratá; albidá, cæruleo-nigro prope marginem radiatá, radiis duabus latis pallidis posticè conspicuè ornatá, intus eodem colore vividè pictá. The two-rayed Limpet. Shell nearly orbicular, conoidly depressed, apex nearly central, radiately striately ridged; whitish, rayed with blue-black near the margin, conspicuously ornamented posteriorly with two broad pale bands, interior vividly painted with the same colour.

Hab. China Seas.

This species is characterized, among other features, by two broad pale bands, radiating from behind the apex, especially distinct in the interior.

Species 143. (Mus. Cuming.)

Patella nimbus. Pat. testă ovată, antice vix attenuată, subacute convexă, apice subantico, undique decussatim undato-striată, striis radiantibus fortioribus; olicaceă, lutescente eleganter radiată, circa apicem purpurascente.

The nimbus Limper. Shell ovate, slightly attenuated anteriorly, rather sharply convex, apex somewhat anterior, everywhere decussately wave-striated, the radiating strice being the stronger; olive, elegantly rayed with faint yellow, purplish round the apex.

Hab. ---- ?

The rays of this species are very softly expressed, and have more the appearance of rays of light than is presented in any other species, whilst the surface strike are finely waved throughout.

Species 144. (Mus. Cuming.)

Patella lima. Pat. testá oblongo-ovatá, convexá, upice antico, subuncinato, radiatim confertim lirato-striatá, striis undique minutissimò muricato-squamatis; virescente-olivaceá, intus vividè caruleo-virescente, marginc purpureo-fuscá.

THE FILE LIMPET. Shell oblong-ovate, convex, apex anterior, rather hooked, radiately closely ridge-striated, strize very minutely prickly scaled; greenish-olive, interior bright blue-green, purple-brown at the margin.

Hab. ---- ?

The entire surface of this species is closely sculptured with very minute prickly scales.



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ERRATA.

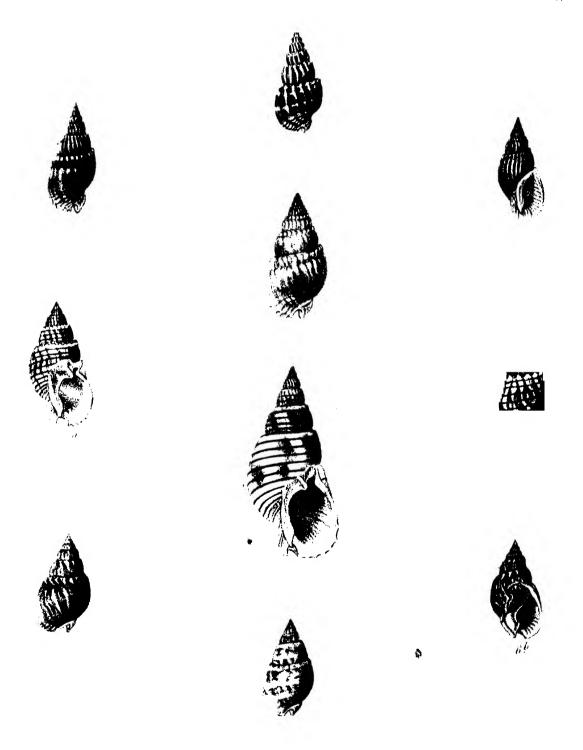
Sp. 15. For P. cuprea, Reeve, read P. argentata, Zool. Beechey's Voyage, p. 148. pl. 39. f. 7; and cancel synonyme P. lugubris.

MONOGRAPH

OF THE GENUS

\mathbf{N} \mathbf{A} \mathbf{S} \mathbf{S} \mathbf{A}

"What nature would compile,
Nature knows to reconcile;
And wisdom, ever at her side,
Of all her children's justified."—Barron Field.



NASSA.

PLATE I.

Genus NASSA, Lamarck.

Testa ovalo-conica, plus minus turrita, in sinum profundum aut canalem brevissimum reflexum desinens; spiră sapè canaliculată; anfractibus plerumque longitudinaliter liratis aut costellatis, sapè transversim sulcatis; apertură subquadrato-orbiculari, columellă callositate nunc tenuè expansă, nunc crassissimă et peramplă, interdum usque ad apicem repandă, labro grumque denticulato, fauce lirată. Operculum paroum corneum.

Shell ovately conical, more or less turreted, ending in a deep sinus or very short recurved canal; spire often channelled; whorls generally longitudinally ridged or thin-ribbed, often transversely grooved; aperture somewhat squarely orbicular, columella with a callosity, now thinly expanded, now very thick and large, spread sometimes to the apex, lip generally denticulated, interior ridged. Operculum small, horny.

The Nassæ are a group of the Linnman Buccina, mostly small, presenting a great diversity of sculpture, but little variety of form or colour. They are nearly all of solid growth, and are characterized, with few exceptions, by a peculiar callous development next the aperture, which varies according to the species. "Proceeding from the columella, it appears in some as anhort lamins, while in others it is thickly enamelled, and spread so as to reach nearly to the apex. Some excellent subgenera have been proposed for these typical differences. M. Kiener described several new species under the head of Buccinum, in addition to those of Lamarck; some few have the described by M. Deshayes, Mr. Say, Mr. Hinds, 2007 Powis, and the list was considerably angmented about year and a half since by the describing, by Mr. Arting Adams, of the new species in Mr. Cuming's collection. They are chiefly inhabitants of the Eastern Seas.

Species 1. (Mus. Cuming.)

NASSA HIBTA. Nass. testd opato-conicd, subturritd, rufes-cente, fascis fuscescentibus claquilatd; spird acuté, costulis eminentibus coronald, in anfractu ultimo etale evanescentibus; aperturd albd, subrotundatd, vissginatd, supernà angustatd; labro crasse, estus marginate.

THE ROUGH NASSA. Shell ovately conical, subigrated, reddish, encircled with brownish bands; spire sharp, coronated with conspiguous ribs, fading away in the

last who'll with age; aperture white, somewhat rounded, emarginated, narrowed at the upper part; lip thick, margined externally.

Buccinum hirtum, Kiener, Icon. coq. vivantes, p. 63. pl. 19. f. 72.

Hab. Swan River, New Holland; Lieut. Preston.

A very elegantly coronated species, with the spire rising into a sharp turret.

Species 2. (Mus. Cuming.)

NASSA CBENULATA. *** ass. testá ovato-conicá, subturritá, fasciis cinereo-fuscis obscurè pictá; spirá acutá, canaliculatá, costulis plicaformibus tenuicoronatá, in anfractu ultimo evanescentibus; aperturá ovatá, albescente, supernè emarginatá, labro acuto, basin versus crenulato, fauce sulcatá.

THE CRENULATED NASSA. Shell ovately conical, subturreted, obscurely painted with light ash-brown bands; spire sharp, channelled, finely coronated with small plait-like ribs, fading in the last whorl; aperture ovate, whitish, emarginated at the upper part, lip sharp, crenulated towards the base, interior grooved.

Buccinum crenulatum, Bruguière, Encyclopédie Méthodique, ph 394. f. 6.

Hab. Philippine Islands; Cuming.

More finely plicately ribbed than the preceding species, while the lip has a conspicuously crenulated edge.

Species 8. (Mus. Cuming.)

NASSA SEMINODOBA. Nass. testá ovata gonica, acuminata, lifei, nitidá, fuloo-fuscescente; sutural tuberculis moniliformibus ornata; longitudinaliter plicata; plicis superne subnodulasis; anfractu ultimo antice transversim sulcato; columetal lavi, cum callo tenus expanso obtecto, labro antice dentato; intus sulcato.

THE SEMINODOSE NASSA. Shell ovately conical, acuminated, smooth, shining, fulvous brown; suture ornamented with neokhin-like tubercles; longitudinally plaited, plaits subjectors at the upper part; last whorl transversely grooved in front; columella smooth, covered with a thin expanded callosity, lip toothed in front, grooved within.

A. ADAMS, Pro. Zool. Soc. 1851.

Heb. Island of Annaa, South Seas (on the reefs); Cuming.

An interesting species, intermediate in its characters between N. kirta and papillosa.

Species 4. (Mus. Cuming.)

NASSA SUTUBALIS. Nass. testá ovato-turritá, albidá, cinerascente-carneo marmoratá, lineis filiformibus intensè
rufis subæquidistantibus regulariter cingulatá; spirá
acutá, subcanaliculatá; anfractibus lævibus, nitentibus, supernè angulatis et nodoso-coronulis; aperturá
ovatá, supernè conspicuè emarginatá; columellá callosá,
subexpansá, labro anticè crenulato.

THE SUTURAL NASSA. Shell ovately turreted, whitish, marbled with light ash flesh tint, and encircled regularly with nearly equidistant deep red thread-like lines; spire sharp, subchannelled; whorls smooth, shining, angled and nodosely coronated at the upper part; aperture ovate, conspicuously emarginated at the upper part; columella callous, a little expanded, lip crenulated in front.

Buccinum suturale, Lamarck, Anim, sans vert. (Deshayes' edit.) vol. x. p. 166.

Nassa suturalis, Deshayes.

Hab. Island of Burias, Philippines (in sandy mud at ten fathoms); Cuming.

An elegant faintly mottled shell, encircled throughout at about equal distances with deep red lines. The spire is channelled and nodosely coronated.

Species 5. (Mus. Cuming.)

NASSA GLANS. Nass. testá ovato-conică, lævi, albă, nitente, ustulato-luteo nebulosă, lineis intense rufis æquidistantibus regulariter cingulată; spiră acuminată,
prope apicem longitudinaliter plicată; anfractibus superne plano-augulatis; apertură ovată, superii emarginată, labro antice denticulis muricato.

THE ACORN NASSA. Shell ovate, conical, smooth, white, shining, clouded with burnt yellow, encircled regularly with equidistant deep red lines; spire acuminated, longitudinally plaited near the apex; whorls flatly angled at the upper edge; aperture ovate, emarginated at the upper particularly in the front with denticles.

Buccinum glane, Linewus, Syst. 34. (12th edit.) p. 1200.

Hab. Philippine Islands; Cuming.

A well-known species, characterized, like the preceding, by being encircled throughout with conspicuous equidistant red lines.

Species 6. (Mus. Cuming.)

NASSA MUTABILIS. Nass tests ovato-conics, levi, nitidi, prope apicem longitudinaliter plicats, futoo-rufo aul luteo nebuloss; spirs acuts; anfractibus concexis, prope suturas fuscis alba rufo-macutats cinctis; apertura fauce sulcats.

THE CHANGEABLE NASSA. Shell ovately conical, smooth, shining, longitudinally plaited near the apex, clouded with fulvous-red and yellow; spire sharp; whorls convex, encircled at the suture with a red-spotted white band; interior of the aperture grooved.

Buccinum mulabilis, Linuseus, Syst. Nat. (12th edit.) p. 1201.

Buccinum gibbum, Bruguière.

Nassa gibba, Roïssy.

Buccinum foliosum, Wood.

Hab. Mediterraneau.

Readily distinguished by its mottled colouring and sutural red-blotched band.

Specia 7. (Mus. Cuming.)

NASSA MARMOREA. Nass. testa ovato-conica, levi, nitida; spira subacuminata; albida, luteo-fusco trifasciatim marmorata; anfractibus plunimeculis, supernè subcontractis; columella subcorrugata, labro extus vaxicoso, intus sulcato.

EARBLED NASSA. Shell ovately conical, smooth, shining; spire a little acuminated; whitish, marbled in three bands with yellowish-brown; whose rather flat, rather controlled about the upper part; columbia slightly wrinkled, lip rations within accordance.

A. ADAMS, Pro. Zool. Soc. March 1861.

Hab. Cayayan, Island of Mindanao, mud at twenty-five fathous); Cuming

A smooth rather splid shell, contrasted tures; bluish-white, encircles with the brown bends.

Nassa Pt.II.

















Species 8. (Mus. Cuming:)

NASSA MUCRONATA. Nass. testă ovato-conică, sublevi, nitidă, longitudinaliler plicată, lutescente-fușco varie-gată; anfractibus rotundatis, superne contractis, ultimo subgiboso; spiră acută, mucronătă; columellă. levi, callosă, labro subincrassato, fauce sulcato.

THE POINTED NASSA. Shell ovately conical, rather smooth, shining, longitudinally plaited, variegated with yellowish-brown; whorls rounded, contracted at the upper part, last whorl rather gibbous; spire sharp, pointed; columella smooth, callous, lip rather thickened, interior grooved.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Dumaguete, Isle of Negros, Philippines (in black sand at eleven fathoms); Cuming.

The whorls of this characteristic little species are peculiarly gibbous, while the spire is raised at the apex into an unusually sharp point.

Species 9. (Mus. Cuming.)

NASSA PICTA. Nass. testá ovato-conicá, lævigatá, politá, Intescente marmoratá, maculis castaneis hic illic pictá, fasciá castaneo-articulatá ad suturas et in medio, lineisque rufescentíbus æquidistantibus cinctá; anfractibus convexis; spirá acutá; aperturá parviusculá, columellá arcuutá, callosá, labro incrassato, varicoso, fauce sulcatá.

THE PAINTED NASSA. Shell ovately conic, smooth, polished, marbled with pale yellow, painted here and there with chestnut blotches, with a chestnut-articulated band at the sutures and in the middle, and encircled with equidistant reddish lines; whorls convex; spire sharp; aperture rather small, columella arched, callous, lip thickened, varicose, interior grooved.

DUNKER, Zeitschrift für Males, 1846, p. 172.

Hab. Philippine Islands; Coming.

Allied in form to the preceding species, but not plicated, while it is distinguished by a characteristic style of pointing.

Species 10 (Min. Cuming.)

ELEGANS. Nast, test opinio conicd, crassinguil.

astractibus convexis; spird acuminată, ad apicem plicată; apertură parviusculă, fance sulcată, columeltă lamellă expansă corrugată, labro subincrassato, margine acuto.

THE ELEGANT NASSA. Shell ovately conical, rather thick, smooth, shining, whitish, more or less obscurely stained with fawn bands, which are blotches at the sutures; whorls convex; spire acuminated, plicated at the apex; aperture rather small, grooved within, columetts with a wrinkled expanded lamella, lip rather thickened, sharp at the edge.

Buccinum elegans, Kienel Toon. coq. vivantes, p. 56. pl. 24. f. 97.

Hab. Indian Ocean.

A solid acuminated species, peculiarly stained with longitudinal bands, which gather into blotches at the sutures.

Fig. 11. (Mus. Cuming.)

This proves to be a light variety of *N. suturalis*, described at Sp. 4 of the preceding Plate, in which the sutural nodules are almost obsolete.

Species 12. (Mus. Cuming.)

NASSA PAPILLOSA. Nass. testa ovato-conicá, crassiuscula, fulgescente, ustulato-rufo sparsim tinclá, tuberculis papillosis undique regulariter obsitá; apertura alba, columella callosa, labro anticè muricato-denticulato.

THE PAPILLOSE NASSA. Shell ovately conical, rather thick, light fulvous, sparingly stained with burnt brown, regularly set throughout with papillose tubercles; aperture white, columella callous, lip prickly denticulated in front.

Buccinum papillosum, Linnæus, Syst. Nat. (12th edit.) p. 1200.

Hab. Philippine Islands; Cuming.

Reculiarly characterized by its strong thick-set armature of papillose tubercles.

Species 13. (Mus. Cuming.)

\$350 SPIRATA. Nose, testé esalo-comicé, acuminalé, lovi, nitlák, albidk, lutro-fusca undato-notulosé; an-fractions convenie, ad suteras appelates, corress apieus

plicato-costellatis; aperturá parviusculá, columellá callosá, lævi, labro subincrassato, simplici.

THE SPIRED NASSA. Shell ovately conical, acuminated, smooth, shining, whitish, wave-clouded with yellow-ish-brown; whorls convex, angled at the sutures, plicately ribbed towards the apex; aperture rather small, columella callous, smooth, lip slightly thick-ened, simple.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Swan River.

The general aspect of this species reminds one of the Ehurna spirata on a small scale.

Species 14. (Mus. Cuming.)

NASSA RUFULA. Nass. testa ovato-conica, lavi, subventri-

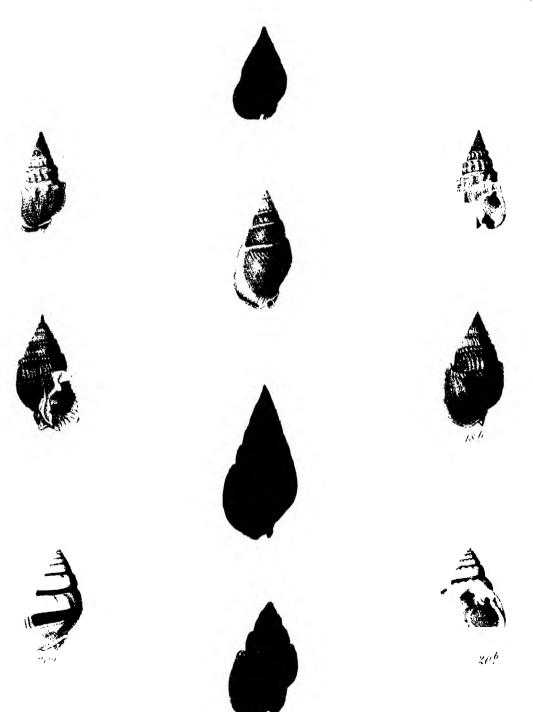
cosá, albidá, fulvo castaneoque nebulosá et strigutá, lineis rufulis tenuibus æquidistantibus cingulatá; anfractibus convexis, ultimo ad basin sulcato; columellá arcuatá, callosá, labro simplici.

THE REDDISH NASSA. Shell ovately conical, smooth, subventricose, whitish, clouded and streaked with fulvous and chestnut, and encircled with faint equidistant reddish lines; whorls convex, the last grooved at the base; columella arched, callous, lip simple.

Buccinum rufulum, Kiener, Icon. coq. vivantes, p. 89. pl. 24.

Hab. Australia.

A light subinflated species, clouded with chestnut and fulvous, and neatly encircled with equidistant faint thread-like lines.



77.0

PLATE III.

Species 15. (Mus. Cuming.)

NASSA LENTIGINOSA. Nass. testá ovato-conicá, lævi, nitidá, lutescente aut cinerascente, lineis tenuibus rufis
cingulatá, fusco undique subtilissimè lentiginosá; spirá
acuminatá; anfractibus convexis, ad suturas plicatomarginatis; columellá laminá callosá corrugatá, labro
intus incrassato et vaidè radiatim lirato.

THE FRECKLED NASSA. Shell ovately conical, smooth, shining, yellowish or ash, encircled with fine red lines, very finely freekled throughout with brown; spire acuminated; whorls opnvex, plicately margined at the sutures; columella with a callous wrinkled lamina, lip thickened inwardly, strongly radiately ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Island of Masbate, Philippines (in sandy mud at seven fathoms); Cuming.

A dark greenish-ash species, sometimes yellowish, finefreekled with darker colour, and encircled with faint red lines.

Species 16. (Mus. Cuming.)

NASSA SPECIOSA. Nass. testá ovato-conicá, acuminatá, lutescente-albá, transversim liratá, liris tenuibus, confertis, granulosis, longitudinaliter plicatá, plicis supernè nodatis, nodis albis; aperturá parviusculá, albá, ad basin rufo-fusco tinctá, columellá arcuatá, labro simplici.

THE BEAUTIFUL NASSA. Shell ovately conic, acuminated, yellowish-white, transversely ridged, ridges fine, closeset, and granuled, longitudinally plaited, plaits noduled at the upper part, nodules white; aperture rather small, white, stained with reddish-brown at the base, columella arched, lip simple.

A. Adams, Pro. Zool. Soc. March 1851.

An elegant acuminated species, encircled with fine granulated ridges, while each whork is coronated with white nodules.

Species 17. (Mus. Cuming.)

NASSA UNICOLORATA. Nass. testá ovato-conicá, prope apicem rude plicatá, basi sulcatá, livido-cinérascente, lineis minutis albis longitudinalibus obscuré notatá; suturis albidis; columella arcuatá, laminá corrugatá, labro simplici, ad basin minuté denticulato, extus fortissime varicoso.

THE ONE-COLOURED NASSA. Shell ovately conic, smooth, rudely plaited towards the apex, grooved at the base, livid-ash, obscurely marked with minute white longitudinal lines; sutures whitish; columella arched, with a wrinkled lamina, lip simple, minutely denticulated at the base, very strongly varicose without.

Buccinum unicolorum, Kiener, Icon. coq. viv. p. 60. pl. 19.

Hab. North Australia; Jukes.

A fine solid species, closely allied to N. olivacea.

Species 18. (Mus. Cuming.)

NASSA CANALICULATA. Nass. testá ocato-conicá, longitudinaliter tenuiplicatá, basi sulcatá, cinerco-olivacea, interdum pallidè castaneo-bizonatá; spirá acutá; anfractibus supernè canaliculatis, duobus infimis dorso plus minus lævibus; columellá laminá expansá subcorrugatá, labro fortiter varicoso, fauce lirutá.

THE CHANNELLED NASSA. Shell ovately conic, longitudinally finely plaited, grooved at the base, ash-olive, sometimes faintly banded with two chestnut zones: spire sharp; whorls channelled round the upper part, the two lowest whorls more or less smooth at the back; columella with a slightly wrinkled expanded lamina, lip strongly varieose, interior ridged.

Buccinum canaliculatum, Lamarck, Anim. sans vert. (Deshayes' edit.) vol. x. p. 161.

Nassa canaliculata, Deshayes.

Hab. Philippine Islands; Cuming.

Readily distinguished from its allied species by its densely plaited sculpture, and channelled suture.

Species 19. (Mus. Cuming.)

NASSA OLIVACEA. Nass. testá ovato-conicá, longitudinaliter plicatá, plicis in anfractibus duobus infimis evanidis, basi sulcatá; rufo-fuscescente vel olivaceá, zunulá pallidá medianá cinctá; aperturá subanguste ovatá, cærulescente-albá, columellá laminá expansá corrugatá, labro extus fortiter varicoso, intus brevilirato.

THE OLIVE NASSA. Shell ovately conical, longitudinally

plaited, plaits in the two last whorls fading away, grooved at the base; reddish-brown or olive, encircled by a small faint central zone; aperture rather narrowly ovate, bluish-white, columella with an expanded wrinkled lamina, lip strongly varicose, short-ridged within.

Buccinum olivaceum, Bruguière Dict. No. 38.

Nassa olivacea, Deshayes.

Buccinum tænia, Gmelin.

Hab. West Indies.

This well-known species varies a little in colour and robustness of form, but the difference is not material.

Species 20. (Fig. a, b, c, Mus. Cuming.)

NASSA COBONATA. Nass. testá ovatá, subventricosá, dorso lævigatá, nitente, albá vel olivaceá, vel castaneá, medio

zonatd; spird acutá, prope apicem plicatá; anfractibus subrotundatis, supernè tuberculato-nodatis; aperturá subamplá, columellá arcuatá, callosá, labro subvaricoso, margine denticulato, fauce tenuiliratá.

THE CORONATED NASSA. Shell ovate, subventricose, amooth at the back, shining, white or olive or chestnut, zoned in the middle; spire sharp, plaited near the apex; whorls somewhat rounded, tubercularly noduled at the upper part; aperture rather large, columella arched, callous, lip slightly varicose, denticulated at the edge, interior finely ridged.

Buccinum coronatum, Lamarck, Anim. sans vert. (Deshayes' edit.) vol. x. p. 180.

Nassa coronata, Deshayes.

Hab. Madagascar.

In the dark varieties of this species the band is light, and in the light varieties it is dark.



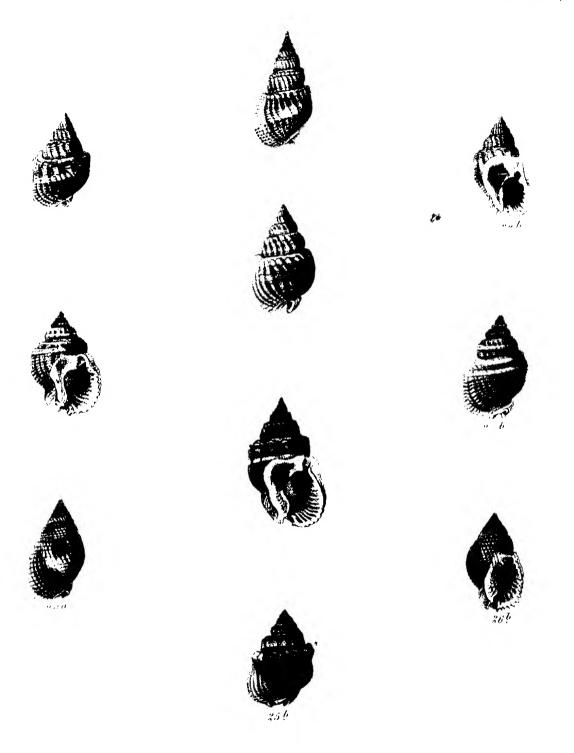


PLATE IV.

Species 21. (Mus. Cuming.)

NASSA SCALARIS. Nass. testā ovato-turritā, pallidā, rufofusco subfasciatā; spirā exsertā, acuminatā, šuturā
impressā; anfractibus longitudinaliter densē costatis,
costis ad suturas nodulatis, interstitiis creberrimē cancellatis; aperturā parviusculā, columblīs laminā expansā subcorrugatā, labro simplici, fauce vuldē liratā.
The Ladder-like Nassa. Shell ovately turreted, pale,
obscurely banded with reddish-brown; spire exserted,
acuminated, suture impressed; whorls longitudinally
densely ribbed, ribs noduled at the sutures, interstices
very closely cancellated paperture rather small, columella with a slightly wrinkled expanded lamina, lip
simple, interior strongly ridged.

A. ADAMS, Pro. Zool, Soc. March 1851.

Hab. Island of Corrigidor, Philippines (in coarse sand at seven fathoms); Cuming.

An elegantly sculptured shell, resembling Scalaria in general aspect.

Species 22. (Mus. Cuming.)

NASSA PULLA. Nass. testá ovatá, plicis subrudibus longitudinalibus, sulcis transversis dense decussatá, cinereocarulescente, interdum albizonatá; anfractibus superne angulatis, ad angulum nodatis; columellá arcuatá, laminá lati-expansá callosá orbiculari, sauce lifatá.

THE YOUNG NASSA. Shell ovate, decussated with rude longitudinal plaits and transverse grooves, ash-blue, sometimes white-zoned; whorls angled at the upper part, noduled on the angle; columella arched, with a large wide-spread orbicular callous lamina, interior ridged.

Buccinum pullus, Linnæus, Syst. Nat. (12th edit.) p. 1201.

Hab. Philippine Islands; Cuming.

A solid greenish-ash shell, with a pale central band.

Species 28. (Mus. Cuming.)

NASSA NODIFERA. Nass: testif ovato-conicd, cinerec-albescente, rufo-fusco sparsim maculati, longitudinativer costati; anfractions convexis, costis callosis, nitentions, ad suturas subnodosis; apertura ovati, columelli arcuati, lamini expansi, callosi, fauce valde lirati. THE NODIFEROUS NASSA. Shell ovately conical, ashwhite, spotted here and there with red-brown, longitudinally ribbed; whorls convex, ribs callous, shining, subnodose at the sutures; aperture ovate, columella arched, with an expanded callous lamina, interior strongly ridged.

Powis, Pro. Zool. Soc. 1835, p. 95.

Hab. Galapagos Islands and Panama (in coral sand at from six to ten fathoms); Cunning.

The ribs of this species have a peculiar shining enamel-like appearance.

Species 24. (Mus. Cuming.)

NASSA SULCIFERA. Nass. testá ovato-ventricosá, cinerascente, albifasciatá, longitudinaliter subplicatá, transversim liratá; spirá productá, acutá; anfractibus convexis, supernè angulatis, ultimo sulco subamplo infra suturam; columellá arcuatá, callo supernè expanso, fauce liratá."

THE GROOVED NASSA. Shell ovately ventricose, ash, white-banded, longitudinally subplicated, tensversely ridged; spire produced, sharp; whorls convex, angled at the upper part, last whorl with a rather large groove beneath the suture; columella arched; with a spreading callosity above, interior ridged.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Algoa Bay.

Somewhat ventricose in form with only faint indications of longitudinal plaits. *

Species 25. (Fig. a, b, Mus. Cuming)

NASSA ARCULARIA. Nass. testá ovatá, partricosá, crassá, cinered vel chicaced, zonuld alba singulatá, prope apicem plicatá, ande lævigatá, nitale, ad basin sulcatá; spirá acutá, anfractious superné angulatis, ad angulum tuberculato-nodatis; columellá arcuatá, interdum callo laté expanso erato orbiculari, fauce liratá.

THE LITTLE BOX ASSEA. Shell orate, ventrides thick, ash or olive, entircled with a white zone, plicated near the apex, then smooth and shining, grooved at the base; spire sharp; whorls tugled at the upper part, tubercularly noduled at the angle; columella arched, sometimes with a broadly expanded erect orbicular callosity, integior ridged.

Buccinum arcularia, Linnaeus, Syst. Nat. (12th edit.) p. 1200.

Nassa arcularia, Lamarck.

Hab. Philippine Islands; Cuming.

This well-known species is perhaps the most strongly tubercled of the genus.

Species 26. (Mus. Cuming.)

NASSA CREMATA. Nass. testă ovato-conică, liris longitudinalibus et transversis undique dense cancellată, cinereo-olivaceă, fusco partim tinctă; spiră subcanaliculată, sutură impressă; apertură parviusculă, columella arcuata, lamina tennicorrugata, labro muricatodenticulato.

THE BURNED NASSA. Shell ovately conical, densely cancellated throughout with longitudinal and transverse ridges, ash-olive, partially stained with brown; spire subchannelled, suture impressed; aperture rather small, columella arched, with a finely wrinkled lamina, lip prickly denticled.

HINDS, Moll. Voy. Sulphur, pl. 9. f. 8 and 9. Hab. Straits of Malacca.

A rather solid species, densely crossed-ridged throughout, with somewhat the aspect of a Cancellaria.































PLATE V.

Species 27. (Mus. Cuming.)

NASSA PAUPERATA. Nass. testá ovatá, ventricosá, longiludinaliter granoso-plicatá, granis fortioribus juxta suturas, albá, tuteo-castaneo interrupte fasciatá; anfractu ultimo dorso sublævigato, nitente; aperturá parviusculá, labro varisoso, fauce striatá.

THE IMPOVERISHED NASSA. Shell ovate, ventricose, longitudinally granosely plaited, grains stronger next the sutures; white, interruptedly banded with yellowish chestnut; last whore rather smooth at the back, and shining; aperture rather small, lip varicose, interior striated.

Buccinum pauperatum, Lamarck, Anim. sans vert. (Deshayes' edit.) vol. 10. p. 188.

Hab. Australia.

There is no up-raised callosity in this species, although some specimens may have a thicker deposit of enamel about the columnla than others.

Species 28. (Mus. Cuming.)

NASSA RETECOSA. Nass. testá ovatá, acuminale rafescente-cinered; spirá acutá, suturá impressa; cafractibus convexis, undique dend granoso-reticulatis, granis parviusculis, prominentibus; columellá corrugatá; laminá lenniculá expansá, aperturá superné sinuatá, fauce liratá.

THE NETTED NASSA. Shell ovate, acuminated, reddishash; spire sharp, suture impressed; whoris convex,
densely granosely reticulated, grains rather small, but
prominent; columella wrightled, with a rather thin
expanded lamina, aperture sinuated at the upper part,
interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Albay, Island of Luzon, Philippiness and at six fathoms); Cuming.

Closely allied to N. cremata, which scarcely differs except in having the suture angularly channelled.

Species 29. (Mus. Cuming.)

NASSA GEMMULATE. Nass. testd outd, centricord, tudinaliter gramoso-pligated, grants tumidis, corrucosis, lutescente alles described et proviseue macre goutd, entered plans-canalica-

latá; anfractu ultimo multo majore, rotundato; columellá granoso-laminatá, fauce valde liratá.

THE JEWELLED NASSA. Shell ovate, ventricose, longitudinally granosely plaited, grains swollen, warty; yellowish-waite, stained and promiscuously spotted with light brown; spire rather short, sharp, suture flatly channelled; last whorl much the largest, rounded; columella granosely laminated, interior strongly ridged.

Buccinum gemmulatum, Lamarck, Anim. sans vert. (Deshayes' edit.) vol. 10. p. 169.

Nussati gemmulata, Deshayes.

Hab. Philippine Islands; Cuming.

A rounded bulbous-like species, densely wart-grained throughout.

Species 30. (Mus. Cuming.)

Nassa Cumingii. Nassa testá ovalá, subventricosá, solidá, subpellucido-albá, rufo-fuscescente promiscue tinclá, granis verrucosis undique densissime seriatim sculptá; spirá subacutá, suturá plano-canaliculatá; aperturá parviusculá, columellá granoso-laminatá, funce valde liratá.

Cuming's Nassa. Shell ovate, rather ventricose, solid, subtransparent white, stained promiscuously with faint reddish-brown, very densely sculptured throughout with rows of warty granules; spire rather sharp, suture flatly channelled; aperture rather small, columella granoscly laminated, interior strongly ridged.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. China.

An elegant subtransparent-looking shell, though solid, very densely regularly set throughout with small warty granules.

Species 31. (Mus. Cuming.)

NASSA STOLIDA. Nass. testá ovato-conicá, subpyramiduli, crassá, solidissimá, oærulescente-cinered, fusco luteoque tinetá et maculatá; anfractibus plano-declivibus, superud agbindentatis et rude irregulariter plicatis, interstitiis obscuré tenúicancellatis; apertud parvá, columellá valde callosá, callonitate breviter recurvá, labro simplici, fauce lævigatá, purpureo-fusoá.

HRAVY NASSA. Shell ovatehr conical, somewhat

pyramidal, thick, very solid, bluish-ash, sparingly stained and blotched with yellow and brown; whorls flatly slanting, slightly indented and rudely irregularly plaited round the upper part, interstices obscurely finely cancellated; aperture small, columella very callous, callosity shortly recurved, lip simple, interior smooth, purple-brown.

A. Adams, Pro. Zool. Soc. March 1851. Hab. ——?

A heavy solid species of a peculiar pyramidal form, very rudely and irregularly sculptured.

Species 32. (Mus. Cuming.)

NASSA DISTORTA. Nass. testá acuminato-conicá, solidá, cærulescente-cinereá, luteo fuscoque plus minus tinctá et obsoletè fasciatá; spirá elevatá, anfractibus juxta suturas subcontractis, granatis, deinde tenuiplicatis; aperturá parvá, columellá densè callosá, labro simplici, funce tenuiliratá.

THE DISTORTED NASSA. Shell acuminately conical, solid, bluish-ash, more or less stained and obsoletely banded with yellow and brown; spire raised, whorls slightly contracted and granuled next the sutures, then thinly plaited; aperture small, columella thickly callous, lip simple, interior thinly ridged.

A. Adams, Pro. Zool. Soc. March 1851.

Of the same peculiar type as the preceding species, distinguished by a delicate sculpture of thin longitudinal plaits, with a granule corresponding to each next the sutures.

Species 33. (Mus. Cuming.)

NASSA OBNATA. Nass. testă ovalo-conică, basi sulcată et contortă, spiră acută, lutev-albă, violascente-rufu latizonată; anfractibus convexis, longibudinaliter concentrice tuberculato-plicatis, interstitiis striato-cuncellatis; apertură parviusculă, tenue corrugato-luminată, labro crassissime varicoso, fauce brevilirată.

THE ORNATE NASSA. Shell ovately conical, grooved and twisted at the base, spire sharp, yellowish-white, broadzoned with violet-red; whorls convex, longitudinally concentrically tubercle-plaited, interstices striately cancellated; aperture rather small, thinly wrinkled laminated, lip very thickly varicose, interior short-ridged.

KIENER, Icon. coq. vivantes, p. 80. pl. 21. f. 83. Hab. Ceylon.

A characteristic species, belonging to the group of the genus bordering on *Triton*.































PLATE VI.

Species 34. (Mus. Cuming.)

NASSA ANGULIFERA. Nass. testá ovato-conicá, subturritá, fulvescente, rufo-fasciatá; anfractibus convexis, supernè angulatis, longitudinaliter plicatis, interstitiis striato-cancellatis; esperturá parviusculá, columellá brevilaminatá, labro simplici, variocso.

THE ANGLED NASSA. Shell ovately conic, subturreted, light fulvous, banded with red; whorls convex, angled at the upper part, longitudinally plaited, interstices striately cancellated; aperture rather small-columella short-laminated, lip simple, varicose.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Galapagos Islands (at ten fathoms); Cuming.

A small species, allied to the *Triton*-like division of the genus, distinguished by the angular contour of the whorls round the upper part.

Species 35. (Mus. Cuming.)

NASSA FILOSA. Nass. testă ovată, suboblique productă, craesă, polită, nitente, cinereo-olivaceă, albilentiginosă, fasciis subobscuris duabus lineisque distantibus rufis cingulată; spiră brevi, acută; anfractibus convexis, suboblique declivibus; apertură parvă, columellă labroque dense callosis, labro lutescente, immaculată.

THE THREADED NASSA. Shell ovate, somewhat obliquely produced, thick, polished, shipter, ash-olive, freckled with white, and encircled with distant red lines, and two obscure reddish bands; spire short, sharp; whorls convex, rather obliquely slanting; aperture small, columella and lip thickly callous, lip yellowish, unspotted. Gray, Brit. Mus.

Hab. Cagayan, Island of Mindanso, Philippines (in sandy mud at twenty-five fathoms); Cuming.

A very characteristic, shining, enamelled species, resembling Cyllene in form.

Species 36. (Mus. Cuming.)

NASSA VERBUCOSA. Nass. testá acuminato-crais; spira acutá, sutura plano-canaliculata; undique esciatim granosa, granis tumidis, peramplitor verrucosis, latinocente, rufo-fusco sparsim nebuloso; apertura parad, columetta lamina corrugata tenni expansa, fauce lività.

The WARTY NASSA.

sharp, flatly channelled at the suture; everywhere seriately granuled, granules swollen, very largely warty; yellowish, sparingly clouded with reddishbrown; aperture small, columella with a thin extended wrinkled lamina, interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Dalaguete, Island of Negros, Philippines (at cleven fathoms); Cuming.

Allied to *N. gemmulata* of the preceding plate, but the granules are larger and more decidedly warty.

Species 37. (Mus. Cuming.)

NASSA HISPIDA. Nass. testá ovato-conicá, solidiusculá, albá, fasciá indistinctá olivaceá notatá; spirá acutá; anfractibus plano-convexis, undique fortiter seriatim muricato-granosis, serie superná distantiore et prominente; aperturá parvá, columellá excavatá, basi contorlá, labro sim sici.

THE PRICKLY NASSA. Shell ovately conical, rather solid, white, marked with an indistinct olive band; spire sharp; whorls flatly convex, strongly seriately prickly grained throughout, the uppermost row being rather more distant than the rest, and prominent; aperture small, columella excavated, twisted at the base, lip simple.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Loon, Island of Bohol, Philippines (on the reefs at low water); Cuming.

A prominently prickly sculptured species, chaste in colouring and elegant in form.

Species 38. (Mus. Cuming.)

NASSA MONILE. Nass. testd ovato-oblongd, lævi, nitidd, albidd, fasciis rosco-olivaceis luteoque tinctd; anfractibus plano-convenis, supernè indentatis et granatis, inde flexuoso-plicatis, basi sulcatis; aperturd ould, columella labroque callosis; fauce lirata.

THE NECKLACE Nassa. Shell ovately oblong, smooth, shining, whitish, stained with rose-olive bands and yellow; whorls fiatly convex, indented and grained at the upper part, then fiexuously plaited, grooved at the base; sperture rather small, lip and columella callous, interior ridged.

Buccinum monile, Kiener, Icon. coq. vivantes, p. 68. pl. 11. f. 40.

Hab. Philippine Islands; Cuming.

A fine solid species, longitudinally wave-plaited throughout, with a characteristic groove beneath the sutures.

Species 39. (Mus. Cuming.)

NASSA CANDENS. Nass. testá acuminato-ovatá, solidiusculá, albidá, fuscescente sparsim tinctá; spirá acutissimá, suturá angusté canaliculatá; anfractibus planoconvexis, granato-reticulatis, granis prominentibus,
submuricatis, interstitiis pulcherrimé elevato-lineatis;
aperturá parvá, columellá excavatá, corrugatá, callositate orbiculari erectá, fauce liratá.

THE GLISTENING NASSA. Shell acuminately ovate, rather solid, whitish, sparingly stained with light brown; spire very sharp, narrowly channelled at the suture; whorls flatly convex, granately reticulated, grains prominent, rather prickly, interstices very beautifully elevately lineated; aperture small, columella excavated, wrinkled, with an erect orbicular callosity, interior ridged.

Hinds, Moll. Voy. Salphur, pl. 9, f. 6 and 7. Hab. Marquesas Islands: Hinds.

One of the most elaborately sculptured species of the genus, with an erect shining callosity at the sperture.

Species 40. (Mus. Cuming.)

NASSA FASCIATA. Nass. testá ovato-conicá, subjusiformi, albá, rufo-fusco conspicus bifasciatá, undique seriatim granatá, granis prominentibus, obtusis; aperturá parviusculá, columellá labroque breviliratis.

THE BANDED NASSA. Shell ovately conical, subfusiform, white, conspicuously two-banded with red-brown, seriately grained throughout, grains prominent, obtuse; aperture rather small, lip and columella short-ridged.

Buccinum fasciatum, Quoy and Gaimard, Moll. Voy. de l'Astrolabe, vol. ii. p. 445. pl. 32. f. 18 to 21. Nassa fasciata, Deshayes.

Hab. South Australia.

A white, obtusely grained shell, very conspicuously banded with red-brown.





























PLATE VII.

Species 41. (Mus. Cuming.)

NASSA NODATA. Nass. testá subjusiformi-ovatá, crassá, lutescente, basin versus nigricante bifasciatá, longitudinaliter plicato-costatá, transversim liratá, liris filiformibus, costas super nodatis; aperturá parviusculá, columellá brevilaminatá, labro simplici, fortiter varicoso, fauce breviliratá.

THE KNOTTED NASSA. Shell somewhat fusiformly ovate, thick, yellowish, two-banded with faint black towards the base, longitudinally plicately ribbed, transversely ridged, ridges thread-like, knotted on the ribs; aperture rather small, columella short-laminated, lip simple, strongly varicose, interior short-ridged.

HINDS, Moll. Voy. Sulphur, pl. 9. f. 14, 15. Hab. Straits of Malacca.

A solid ribbed species, encircled with fine thread-like ridges, which are knotted on crossing the ribs.

Species 42. (Mus. Cuming.)

NASSA STIGMARIA. Nass. testá ovato-ventricosá, rufescente, albo-fuscoque variegatá et punctatá, transversim et longitudinaliter incisá, granis intermediis convexoplanis, quadratis; columellá callosá, basi corrugatá, labro simulici, fauce liratá.

THE MARKED NASSA. Shell ovately ventricose, reddish, variegated and dotted with white and brown, transversely and longitudinally engraved, intermediate grains convexly flattened and square; columella callous, wrinkled at the base, lip simple, interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Island of Siquijor, Philippines (under stones); Cuming.

A curious square-grained species, the sutural row of grains being rather swoller and plaited.

Species 48. (Mus. Cuming.)

NASSA MARGINGLATA. Nass tests ovato-acuts, longitudinaliter plicats, sulvis linearthus transversis doonsals, subgranuloss; albids, olsoaged, fusco et rufo tincis effasciats; anfractuum margine superio crassiusculo, crenulato; columells varis celloss, toro incrassato,

THE MARGINED NASSA. Shell ovately acute, longitudinally plaited, decussated with transverse linear grooves, subgranulose; whitish, stained and banded with olive, brown, and red; upper edge of the whorls rather thick and crenulated; columella variously callous, lip thickened, interior ridged.

Buccinum marginulatum, Lamarck, Anim. sans vert. (Deshayes' edit.) vol. 10. p. 182.

Hab. Mediterranean.

There is mostly a very characteristic brown groove below the sutures.

Species 44. (Mus. Cuming.)

Nassa venusta. Nass. testá ovato-acutá, crassá, dorso gibbosá, albidá, cæruleo lividoque fasciatá, punctis fuscis bivittatá, longitudinaliter plicatá, plicis tenuibus, flexuosis, subirregularibus, liris subtilibus transversus cancellatá; spirá breviusculá, acutá; columellá labroque densè callosis, aperturá parcá, fauce liratá.

THE HANDSOME NASSA. Shell ovately acute, thick, gibbous at the back, whitish, banded with blue and livid, two-filleted with brown dots, longitudinally plaited, plaits thin, flexuous, rather irregular, cancellated with fine transverse ridges; spire rather short, sharp; lip and columella thickly callous, aperture small, interior ridged.

Buowinum venustum, Duncker, Zeitschrift für Malac. 1847, p. 59.

Hab. Isle of Bali, Indian Ocean; Largilliert. Island of Corrigidor, Philippines; Cuming.

A solid characteristic species of a livid-blue colour, encircled above and below the sutures with a fillet of brown

Species 45. (Mus. Cuming.)

NASSA DISPAN. Nass. testd ovato-conicá, crassá, subvenpricosá, cincred, albo lentiginosá, fusco ad suturas et basin punctatá; anfractibus supernè tumidis et obsoletè nodulosis, prope apicem, plicatis; columellá breviter laminatá, fauce liratá.

THE DIFFERENT NASSE. Shell evately conical, thick, tubventricose, ash-coloured, freekled with white, dotted with brown at the sutures and at the base; whorls swollen and obsoletely nodulous round the upper

NASSA .- PLATE VII.

part, plaited near the apex; columella shortly laminated, interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Island of Camiguing, Philippines (in sandy mud); Cuming.

A smooth solid rather swollen shell, freekled with white upon an ash ground.

Fig. 46. (Mus. Cuming.)

A specimen of a somewhat variable species, N. crassa, of which we have selected a more characteristic variety for description at Plate X.

Fig. 47. (Mus. Cuming.)

This shell, N. Isabellei, D'Orbigny, we take to be a variety of N. marginulala, represented at Fig. 43.































PLATE VIII.

Species 48. (Mus. Cuming.)

NASSA GAUDIOSA. Nass. testă acuminato-ovată, lævigată, cinereo-nigricanle et fusco fasciată, albo lentiginosă, longitudinaliter plicată, plicis ad suturas mucronatis, deinde evanescentibus; apertură parvă, fauce lirată, columella brevi-laminată.

THE JOYFUL NASSA. Shell acuminately ovate, smooth, banded with ash-black and brown, freekled with white, longitudinally plaited, plaits pointed at the sutures, then fading away; aperture small, interior ridged, columella short-laminated.

HINDS, Moll. Voy. Sulphur, pl. 9. f. 16, 17.

Hab. Straits of Malacca; Hinds.

The plaits of this species have the appearance of being worn away in the centre of the whorls.

Species 49. (Mus. Cuming.)

NASSA CRENELLIFERA. Nass. testá subacuminato-ovatá, albidá, fulvescente obscurè fasciatá; spirá acutá; anfractibus ad suturas concavo-canaliculatis, longitudinaliter crebriliratis, sulcis linearibus decussatis; columellá subexcavatá, labro subincrassato, varicoso, fauce liratá.

THE CRENULATED NASSA. Shell somewhat acuminately ovate, whitish, obscurely banded with light fulvous; spire sharp; whorls concavely channelled at the sutures, longitudinally closely ridged, decussated with linear grooves; columella slightly excavated, lip rather thickened, varicose, interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

A closely netted species, with a peculiar finely concave channel at the sutures.

Fig. 50 and 51. (Mus. Cuming.)

The shells here figured, though differing much at first sight from those represented in the preceding plate as N. maryimulata, appear to be varieties of that species. They vary chiefly in having the longitudinal ridges more or less strongly developed, and in being with or without a callosity at the aperture.

Species 52. (Mus. Cuming).

NASSA LAUBRYMOSA. Nass seste subfasiformi-ocata, lavigata, carulescente-cinerea, conulis dualus pallitis cincta; anfractibus superno se granularum albarum ornatis, granulis dualus pons sebrum in phois descendentibus; columnella callosa, teoro lativariouso, fauce lirata.

THE WEEPING NASSA. Shell somewhat fusiformly ovate, smooth, bluish-ash, encircled with two pale zones; whorls ornamented at the upper part with a row of white granules, two granules behind the lip descending into plaits; columella callous, lip broadly varicose, interior ridged.

Hab. --- 9

A subfusiform species, of an obscurely banded ash colouring, encircled just below the suture with a characteristic row of white granules.

Species 53. (Mus. Cuming).

NASSA SIQUIJORENSIS. Nass. testá ovatá, subturritá, rufescente, fasciá pallidá cinctá, longitudinaliter oostellatá, costellis permultis confertis, interstitiis striatocancellatis; suturá plano-canaliculatá; columellá corrugatá, tenuè laminatá, labro muricato-denticulato, fauce liratá.

THE SIQUIJOR NASSA. Shell ovate, subturreted, reddish, encircled with a pale band, longitudinally finely ribbed, riblets very numerous, close-set, interstices striately cancellated; suture flatly channelled; columella wrinkled, thinly laminated, lip prickly denticulated, interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab, Island of Siguijor, Philippines; Cuming.

Closely allied to N. crenellifera in form, sculpture, and painting, though apparently distinct.

Species 54. (Mus. Cuming.)

NASSA PUNCTATA. Nass. testá acuminato-ovatá, lævi, cinereá, albipunctatá, lineolis ruße cingulatá; spirá acutá; anfractibus plano-declivibus, ad suturas granocrenulatis, granis fusco punctatis; columellá laminá subaurantiá callosá expansá, labro oblique producto, fauce liratá.

THE DOTTED NASSA. Shell acuminately owate, smooth, ash, dotted with white, encircled with fine red lines; spire sharp; whorls flatly slanting, granosely crenulated at the sutures, grains dotted with brown; columella with an orange-tinted callous expanded lamina, lip obliquely produced, interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Puerto Galero, Province of Albay, Island of Luzon, Philippines (in coarse sand at six fathoms); Cuming.

A flatly slanting, sharply acuminated species, of a dark white-freckled ash-colour, with a characteristic grain-crenulated border to the edge of the whorls next the sutures.

Nassa, Pl. IX.



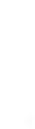






















PLATE IX.

Species 55. (Mus. Cuming.)

NASSA DENTICULATA. Nass. testá ovato-conicá, subventricosá, fuloescente, rufo fasciatá et maculatá; anfractibus convexis, longitudinaliter flexnoso-plicatis, plicis rudibus, subnodatis, transversim liratis, liris angustis numerosis, planiusculis; columellá callo tenui expanso, fauce liratá, labro minutè denticulato.

THE DENTICLED NASSA. Shell ovately conical, somewhat ventricose, fulvous, banded and blotched with red; whorls convex, longitudinally flexuously plaited, plaits rude, slightly hoduled, transversely ridged, ridges narrow, numerous, and rather flat; columella with a thin expanded callosity, interior ridged, lip minutely denticled.

A. ADAMS, Pro. Zool. Soc. March 1851.

There is some resemblance in the general aspect of this species to young specimens of the common Buccinum andatum.

Species 56. (Mus. Cuming.)

NASSA PLICATELLA. Nass. testá ovato-conicá, fulvá, versus labrum albá; anfractibus plano-convexis, inferse
majoribus, longitudinaliter plicatis, plicis ad suturas
obsolete nodosis, versus labrum parvioribus, numerosis,
transversim liratis, liris planulatis; columellá laminá
tenui, basi uniplicatá, fauce liratá, labro minute denticulato.

THE FINELY PLAITED NASSA. Shell ovately conical, fulvous, white towards the lip; whorls flatly convex, larger round the lower part, longitudinally plaited, plaits obsoletely noduled at the sutures, smaller and numerous towards the lip, transversely ridged, ridges flattened; columella with a thin lamina, one-plaited at the base, interior ridged, lip minutely denticulated.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Wallwich Bay, Africa.

Allied typically to the European N. reticulata.

Species 57. (Mus. Cuming.)

NASSA RETICULATA. Nass. testd ovato-conicit, subfusiformi, fulvescents vet cinered, longitudinaliter plicate, transversim braid, liris augustis, subplandatis, ad plicas nodulosis; columellá brevilaminatá, aperturá parviusculá, fauce denticulatá, labro simplici.

THE RETICULATED NASSA. Shell ovately conical, somewhat fusiform, fulvous or ash, longitudinally plaited, transversely ridged, ridges narrow, rather flat, nodulous on the plaits; columella short-laminated, aperture rather small, interior denticulated, lip simple.

Buccinum reticulatum, Linnæus, Syst. Nat. (10th edit.) p. 740.

Buccinum pullus, Pennant.

Buccinum vulgatum, Gmelin.

Nassa reticulata, Deshayes.

Hab. Seas of Europe.

The principal variation in this species consists in the plaits being small and close-set, or larger and more distant.

Species 58. (Mus. Cuming.)

NASSA COSTELLIFERA. Nass. testá ovato-conicá, acuminatá, albidá, nigricante-castaneo maculatá et interrupte fasciatá, liris subtilibus longitudinalibus et transversis undique granulato-decussatá, canali lævi infrasuturas cingulatá; aperturá parviusculá, columeltá corrugatá, brevilaminatá, fauce liratá.

THE FINE-RIBBED NASSA. Shell ovately conical, acuminated, whitish, blotched and interruptedly banded with blackish-chestnut, granulately decussated throughout with fine longitudinal and transverse ridges, encircled with a smooth canal beneath the sutures; aperture rather small, columella wrinkled, short-laminated, interior ridged.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Curimao, Philippines; Cuming.

A fine characteristic species of solid growth, granulated throughout by the crossing of numerous longitudinal and transverse ridges.

Species 59. (Mus. Cuming.)

Nassa Margarittera. Nass. testá ovato-conicá, albidá, rufo-filo marmoratá, longitudinaliter plicato-costet-latá, transversim dense liratá, liris ad costellis nodulosis; spirá acuminatá, ad enturas subcanaliculatá; columellá subexcavatá, labro incrassato ascendente, apertura fance liratá.

THE PEARLY NASSA. Shell ovately conical, whitish, marbled with red-brown, longitudinally plicately ribbed, transversely densely ridged, ridges noduled on the ribs; spire acuminated, a little channelled at the sutures; columella slightly excavated, lip thickened, ascending, interior of the aperture ribbed.

Buccinum margaritiferum, Dunker, Zeitschrift für Malac. 1847, p. 60.

Hab. --- ?

A very elaborately sculptured and beautiful species.

Species 60. (Mus. Cuming.)

NASSA PALLIDA. Nass. testá acuminato-conicá, pallidá,

olivaceo et cinereo tinctá; aufractibus supernè declivibus et leviter augulatis, transversim sulcatis et rugosostriatis, longitudinaliter plicato-costatis, costis ad augulum tuberculatis; columellá subcontortá, lubro iucrassato, fauce liratá.

THE PALE NASSA. Shell acuminately conical, pale, tinged with olive and ash; whorls slanting and slightly angled at the upper part, transversely grooved and roughly striated, longitudinally plicately ribbed, ribs tubercled on the angle; columella somewhat twisted, lip thickened, interior ridged.

Powis, Pro. Zool. Soc. 1835, p. 96.

Hab. Panama (in sandy mud at six fathoms); Cuming.

An abnormal form of the genus, referable rather to Buccinum.



























PLATE X.

Species 61. (Mus. Cuming.)

NASSA BIMACULOSA. Nass. testá suborbiculari, apud dorsum valde gibbosá, tuberculatá; spirá acutá, longitudinuliter subplicatá, anticè transversim sulcatá, olivacrá, fasciá pallidá cincti, labio cum-callo crasso albo
magno suborbiculari cincto; columellá læci, anticè
uniplicatá; labro valdè incrassato, marginato, anticè
sinuato, intus lirato, extus maculis duahus rufo-fuscis
ornato.

THE TWO-SPOTTED NASSA. Shell suborbicular, very gibbous at the back, tibercled; spire sharp, longitudinally subplicated, anteriorly transversely grooved, olive, encircled with a pale band, lip encircled by a large nearly orbicular thick white callosity; columella smooth, one-plaited in front; lip much thickened, margined, sinuated in front, ridged within, ornamented externally with two reddish-brown blotches.

A. Adams, Pro. Zool. Soc. 1851.

Hah. Island of Siquijor, Philippines (on mud-banks); Cuming.

A solid dwarf-like species, with a wide-spread thickened callosity.

Species 62. (Mus. Cuming.)

NASSA GLOBOSA. Nass. testá globosá, turgidá, dorso valde gilbosá, tuberculatá, longitudinaliter tenniplicatá, transversim striatá, obsolete granulosá; spirá brevi, acutá; aperturá minimá, callo peramplo crasso orbiculari, lutescente.

THE GLOBOSE NASSA. Shell globose, swollen, very gibbous at the back, tuberculated, longitudinally finely plaited, transversely striated, obsoletely granuled; spire short, sharp; aperture very small, with a very large thick orbicular yellowish callosity.

Buccinum globosum, Quoy and Gaimard, Zool. Voy. de l'Astrolabe, vol. ii. p. 448. pl. 32. f. 25 to 27.

Buccinum clathratum, Kiener.

Hah. Island of Vanikoro and New Ireland; Quoy.

A very gibbous solid species, finely latticed throughout, with a thick wide-spreading callosity.

Species 68. (Mus. Cuming.)

NASSA LUTROSTOMA. Nass, test pyramidali-conich, ven-

tricosă, caruleo-fuscă; spiră subturrită; unfractibus superne concavo-angulatis, ad angulum plicato-tuberculatis, lineis fuscis cingulatis; apertură parviusculă, columellă labroque callosis, aurantio-luteis.

THE YELLOW MOUTH NASSA. Shell pyramidally conical, ventricose, blue-brown; spire subturreted; whorls

concavely angled round the upper part, plicately tubercled at the angle, encircled with brown lines; aperture rather small, lip and columcila callous, orange-yellow.

KIENER, Icon. coq. vivantes, p. 110. pl. 30. f. 1. Hab. Senegal.

Of a peculiar bluish colour externally, while the enamel of the lip and columella is a bright orange-yellow.

Species 64. (Mus. Cuming.)

NASSA GIBBOSULA. Nava testá ovatá, crassá, dorso gibbá et tuberculatá, lævi, olivaceá, cærulescente-allo tentiginosá; spirá brevi, acutá; aperturá paroá, callositate crassá peramplá ferè usque ad apicem repandá, callositate albá, intensè aurantio-rufo marginatá.

THE GIBBOUS NASSA. Shell ovate, thick, gibbous and tubercled at the back, smooth, olive, freckled with bluish-white; spire short, sharp; aperture small, with a very large thick callosity spread out nearly to the apex, callosity white, deep orange-red at the edge.

Buccinum gibbosulum, Linnæus, Syst. Nat. (12th edit.) p. 1201.

. Nassa gibbosula, Lamarck.

Hab. Philippine Islands; Cuming.

A very solid gibbous tubercled species, smooth, whitefreckled on olive, with a large callous enamel disc around the sperture.

Species 65, (Mus. Cuming.)

NASSA THEBSITES. Nass. testá ovato-acutá, crassá, valdè gibbosá et tuberculatá, obliquè plicatá, dorso lævi, olivaceo-cinered vel carulescente; aperturá parvá, callositate amplá orbiculari, lutescente, fauce liratá.

THE THERSITES NASSA. Shell ovately acute, thick, very gibbous and tubercled, obliquely plaited, smooth at the back, olive-ash or bluish; aperture small, with a large orbicular yellowish callosity, interior ridged.

Buccinum Thereites, Bruguière, Encyclopédie Méthodique, pl. 394. f. 8.

Nassa Thersites, Lamurck.

Hab. Philippine Islands; Cuming.

A more stoutly gibbous species than the preceding, with a more sharply acuminated spire. The callosity is tinged with yellow.

Species 66. (Mus. Cuming.)

NASSA CALLOSPINA. Nass. testá ovatá, pallidá, fasciá cinereá angulatá; spirá acutá, transversim liratá, plicis
nodosis longitudinalibus instructá; labio cum callo
magno albo extenso tecto, marginibus usque ad spiram
decurrentibus; columellá anticè biplicatá; labro crasso,
calloso, margina, fance valdè lirato.

THE CALLOUS-SPIRE NASSA. Shell ovate, pale, encircled with an ash band; spire sharp, transversely ridged, furnished with nodose longitudinal plaits; lip covered with a large white callosity, the edge of which reaches the spire; columella biplicate; lip thick, callous, edged, much ridged within.

A. Adams, Pro. Zool. Soc. 1851.

Hub. Island of Bhrias, Philippines (in coral sand at six fathoms); Cuming. A solid gibbous tuberculately species, finely reticulately sculptured, with a wide-spread orbicular callosity.

Species 67. (Mus. Cuming.)

NASSA CRASSA. Nass. testá ovatá, crassá, solidá, albidá aut flavescente, interdum cæruleo-fusco fasciatá; spirá brevi; anfractibus supernè concavo-declivibus, longitudinaliter granuloso-plicatis, plicis subdistantibus, plus minus evanidis; aperturá parvá, columellá labroque valdè callosis, callositate non expansá, fauce tirutá.

THE THICK NASSA. Shell ovate, thick, solid, whitish or yellowish, sometimes banded with blue-brown; spire short; whorls concavely slanting round the upper part, longitudinally granulously plaited, plaits rather distant, more or less fading; aperture small, lip and columella very callous, callosity not spread, interior ridged.

Buccinum crassum, Koch, Philippi Abbild. und Besch. Conch. pl. 1. f. 4. p. 43.

Hab. China; Largilliert.

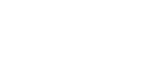
A solid species, in which the lip and columella are very callous at the junction on the body-whorl, but the callosity is not spread.



































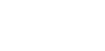






























PLATE XI.

Species 68. (Mus. Coming.)

NASSA BAVIDA. Nass. testá or minatá, subturritá, rufescente, cingulis transversis grinosis sculptá, granis elongatis subquadratis in seriebus obliquis longitudinatibus dispositis; columellá rugosá, brevilaminatá, labro denticulato.

THE TAWNY NASSA. Shell ovate, acuminated, subturreted, reddish, sculptured with transverse granose belts, the grains being elongated and somewhat square, disposed in oblique longitudinal rows; columella rough, shortly laminated, lip denticulated.

A. ADAMS, Pro. Zool. Soc. March 1851.

Itah. Island of Burias, Philippines (in coral sand at six fathoms); Cuming.

The general aspect of this species, in respect of form and sculpture, reminds one of a group of Mitra.

Species 69. (Mus. Cuming.)

NASSA HORRIDA. Nass. testá ovato-globosá, crassá, albidá, luteo el nigricante-fusco variegatá, transversim sulcatá, longitudinaliter plicatá, plicis noduliferis, aspersis, submuricatis; aperturá subrotundá, columellá laminatá, labro lativaricoso.

The RUGGED NASSA. Shell ovately globose, thick, whitish variegated with yellow and blackish-brown, transversely grooved, longitudinally plaited, plaits noduliferous, rough, somewhat prickly; aperture nearly round, columella laminated, lip broadly varicose.

Buccinum horridum, Dunker, Zeitschrift für Malac. 1847, p. 59.

Ilab. ____ ?

A small globose, prickly, plaited shell, variegated with black and brown upon a white ground.

Species 70. (Mus. Cuming.)

NASSA VARIEGATA. Nase, testa ovato-centricosa, albidogrisca, fusco variegata, longitudinaliter striata, liris
transversis granosis subdistantibus ornata, grants rotundis in seriebus obliquis longitudinalibus dispositis;
prira breviuscula, acuta, canaliculasa; colunella corrugata, callo tenui expanso, labro margine crenato, fauce
lirata.

THE VARIEGATED NASSA. Shell ovately ventricose, whitish-grey, variegated with brown, longitudinally striated, emamented with rather distant transverse ridges of grains, grains rounded, disposed in oblique longitudinal rows; spire rather short, sharp, chunnelled; columella wrinkled, with a thin expanded lamina, lip crenated at the edge, interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Ilab. Dalaguete, Island of Negros, Philippines; Cuming.

An elegantly formed, subventricose shell, strongly grained throughout, and having a sharp channelled spire.

Species 71. (Mus. Cuming.)

NASSA CIRCUMCINGTA. Nass. lestá oblongo-ovalá, cinereá, nilidá, dorso subgibbosá; spirá brevissimá, oblasá: suturá fuscá; columeltá excavutá, culto perasuplo crassissimo albo, fusco marginato, usque ad apicem repando, labro callón, lævi.

THE GIEDLED NASSA. Shell oblong-ovate, ash, shining, rather gibbous at the back; spire very short, obtuse; suture brown; columella excavated, with a very large, thick, white, brown-edged callosity, spread out as far as the apex, lip callous, smooth.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Red Sea.

A very singular and unique form of Nassa, having quite the appearance of a Murginella.

Species 72. (Mus. Cuming.)

NASSA GRANITENA. Nass. testá ovatá, crassá, albá, muricato-luberculatá, tuberculis parvis distantibus reyularibus; aperturá parvá, columella excavatá, callo peramplo albo usque ad apicem fere repando, labro incrassato.

THE GRANIFEROUS NASSA. Shell ovate, thick, white, prickly tubercled, tubercles small, distant, regular; aperture small, columella excavated, with a large white callosity, spread out nearly as far as the apex, lip thickened.

Buccinum graniferum, Kiener, Icon. coq. vivantes, p. 100. pl. 27. f. 111.

Hab. Isle of Bohol, Philippines; Cuming.

A solid, white shell, finely prickly-tubercled throughout, with a very thick callosity, reaching nearly to the spire.

Species 73. (Mus. Cuming.)

NASSA MURICATA. Nass. testá ovato-globosá, lutescente, violaceo-fusco tinctá, muricato-nodosá, nodis distantisus, erectis; aperturá parvá, columellá labroque subcallosis.

THE PRICKLY NASSA. Shell ovately globose, yellowish, tinged with violet-brown, prickly nodose, nodules

rather distant, erect; aperture small, lip and columella rather callous.

Buccinum muricatum, Quoy and Gaimard, Zool. Voy. de l'Astrolabe, vol. ii. p. 450. pl. 32. f. 32, 33.

Hab. New Ireland.

Prickly noduled like the preceding species, but destitute of any spreading editorty.

Fig. 74. (Mus. Cuming.)

The specimen here figured proves to be a variety of *N. ravida*, Fig. 68, of rather stouter growth and finer sculpture, from Malacca.

















PLATE XII.

Species 75. (Mus. Cuming.)

NASSA GRUNEBI. Nass. testá ovato-acutá, crassiusculá, albidá, livido seu spadiceo trifasciatá, plicis longitulinalibus nodiferis sulcisque transversis decussatá, muricatá; spirá brevi, acutá; anfractibus planiusculis, supernè angulatis; columellá brevilaminatá, basi uniplicatá, labro crasso.

GRUNER'S NASSA. Shell ovately acute, rather thick, whitish, encircled with three livid or fawn bands, decussated with longitudinal nodiferous plaits and transverse grooves, prickly; spire short, sharp; whorls rather flat, angled at the upper part; columella shortly laminated, one-plaited at the base, lip thick.

Buccinum Gruneri, Dunker, Zeitschrift für Malac. 1846. p. 171.

Hab. Philippine Islands; Cuming.

A sharply prickly nodose species, having somewhat a Ricinula aspect.

Species 76. (Mus. Cuming.)

NASSA PLANICOSTATA. Nass. testá subfusiformi-ovatá, cincréd, interdum fascid rufescente-fuscá cingulatá; spirá breviusculá, acutá; anfractibus longitudinaliter plicato-costellatis, interstitiis concinnè cancellatis, basi sulcatis; columellá brevi-laminatá; aperturá subangustè ovatá, fauce liratá, labro incrassato, denticulato.

The flat-ribbed Nassa. Shell somewhat fusiformly ovate, ash-coloured, sometimes encircled with a reddish band; spire rather short, sharp; whorls longitudinally plicately fine-ribbed, interstices neatly latticed, grooved at the base; columella short-laminated;

A. ADAMS, Pro. Zool. Soc. March 1851.

thickened, denticulated.

Hab. Payta, Peru (under stones at low water); Cuming.

The riblets become fainter as the shell increases in growth, almost disappearing at the lip.

aperture rather narrowly ovate, interior ridged, lip

Species 77. (Mus. Cuming.)

NASSA ANTILLARUM. Mass. testa conto surrita, cimerco-fusca, flavo-fusciata, oblique plicato-costata, liriz transversis decussata; anfractious superne entropicaris, deinda liriz rotundatis; columeliatious expansa, basi contoria, este o crasse variooso.

THE WEST INDIA NASSA. Shell ovately turreted, ashbrown, yellow-banded, obliquely plicately ribbed, decusated with transverse ridges; whorls rather concave round the upper part, then rounded; columella slightly expanded, twisted at the base, lip thickly varioose.

Buccinum Antillarum, Philippi, Zeitschrift für Malac. 1848, p. 139.

Hab. Cuba.

Sculptured obliquely with cross-ridged ribs, which are somewhat distant in passing over the rounded portion of the whorls.

Species 78. (Mus. Cuming.)

NASSA SEMIPLICATA. Nass. testá subacuminato-orata, lutescente-albá, rufo-fusco bifasciatá, longitudinuliter plicato-costatá, costis tenuibus, in anfractu ultimo evanidis; columellá brevilaminatá; aperturá paroá, subrotundatá, labro crasse varicoso, margine minute denticulato.

THE HALF-PLAITED NASSA. Shell somewhat acuminately ovate, yellowish-white, encircled with two red-brown bands, longitudinally plicately ribbed, ribs thin, fading away in the last whorl; columella short-laminated; aperture small, rather rounded, lip thickly varicose, minutely denticled at the edge.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Chusan : Benson.

A very characteristic Scalaria-like species.

Species 79. (Mus. Cuming.)

NASSA OBSOLETA. Nass. testá ovatá, solidiusculd, olivaceo-nigricante, apice erosá; spirá brevi; anfractibus convexo-planis, transversim tenuiliratis, biris superficiariis subirregularibus; aperturá parviusculá, columellá excavatá, planatá, basi truncatá, labro simplici.

THE OBSOLETE NASSA. Shell ovate, rather solid, oliveblackish, eroded at the apex; spire short; whoris convexly flat, transversely finely ridged, ridges superficial, rather irregular; aperture rather small, columells excavated, flattened, truncated at the base, lipsimple.

lay, Journ. Acad. Nat. Sci. Philadelphia, vol. ii. p. 232.

Hab. New York.

Of a very distinct typical form, resembling Achatinella.

Species 80. (Mus. Cuming.)

NASSA SUCCINOTA. Nass. testá acuminato-turritá, lævi, cinerascente, fasciis duabus rufescentibus ciuctá; anfractibus planulatis, supremis costellatis; suturá subcanaliculatá; columellá subincrassatá, labro posticè inflexo, anticè vallè sinuato et dentalo, crasse varicoso, fauce livetá

THE BELTED NASSA. Shell acuminately turreted, smooth, light ash, encircled with two reddish bands; whorls flattened, the uppermost finely ribbed; suture slightly channelled; columcila rather thickened, lip posteriorly reflected, anteriorly very much sinuated and toothed, interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hah. Island of Masbate, Philippines; Cuming.

A smooth flat-whorled accoulated species, encircled with red-brown bands upon a yellowish ground.

Species 81. (Mus. Cuming.)

NASSA VIBEX. Nass. test dovata, crassinscula, cinerea, zonulis fuscis et cæruleis cingulata; anjmections superne angulatis, longitudinaliter plicatis, pticis livis muricato-nodosis decussatis; apertura parvinscula, columella subexoavata, labro simplici.

THE BLACK AND BLUE NASSA. Shell ovate, rather thick, ash, encircled with brown and blue zones; whorle angled round the upper part, longitudinally plaited, plates decussated with prickly nodose ridges; aperture rather small, columella slightly excavated, lip simple.

SAY, American Conchology, pl. 57.

Hab. Island of Masbate, Philippines;

A prickly Ricinula-like species, allied N. Gryneri.



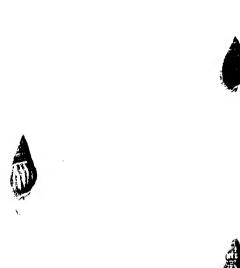
















PLATE XIII.

Species 82. (Mus. Cuming.)

NASSA CONCINNA. Nass. testă ovato-conică, peracută, pallide fulvă, fasciis saturatioribus cinctă, longitudinaliter creberrime undato-plicată, striis impressis confertis eleganter decussată; anfractibus rotundatis, granulis moniliformilus ad suturas; apertură ovali, columellă subrugosă, labro crasse varicoso, fauce lirată.

THE PRETTY NASSA. Shell ovately conical, very sharp, light fulvous, encircled with darker bands, longitudinally very closely wave-plaited, elegantly decussated with close-set impressed strime; whorls rounded, with a necklace of grains at the sutures; aperture oval, columella rather rough, lip thickly variouse, interior ridged.

Powis, Pro. Zool. Soc. 1835, p. 95.

Hab. Toobouai, Polynesia (on the reefs); Curning.

A pretty, close, concentric wave-ridged shell, with a thick white varix behind the lip.

Species 83. (Mus. Cuming.)

NASSA FOVEOLATA. Nass. testá oblongo-ovatá, albidá, longitudinaliter densè plicato-costellatá, interstitiis cancellatis: columellá subrugusá, labro varicoso.

THE PITTED NASSA. Shell oblong-ovate, whitish, longitudinally densely plicately fine-ribbed, interstices cancellated; columnla subrugose, lip varicose.

DUNKER, MSS. (Mus. Cuming.)

Hab. ——?

A cancellated species, allied to the preceding, with the longitudinal riblets less close together.

Species 84. (Mus. Cuming.)

Nassa Leptospira. Nass. testá ovalá, dorso gibbosá; spirá produciá, acutá, lutescente-cinereá, longitudinaliter plicatá, interstitiis concellatis, basi liratá; columellá corrugatá, callo luteo crasso laté repando, funce liratá.

THE THIN-SPIRED NASSE. Shell ovate, gibbous at the back; spire produced, sharp, yellowish-ash, longitudinally plaised, interstices cancellated, ridged at the base; columella wrinkled, with a thick wide-spread yellow callosity, interior ridged.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Ilo Ho, Isle of Panay, Philippines (on mud-banks at low water); Cuming.

A gibbose, close, concentrically plaited species, with a wide-spread callosity and sharp apex.

Fig. 85. (Mus. Cuming.)

A delicate, pink-freekled variety of N. gaudiosa, described at Plate VIII.

Species 86. (Mus. Cuming.)

NASSA MIGA. Nass. testá orato-turritá, longitudinaliter obliquè plicatá, lincis impressis cinyulatá, lutescente aut rosaceá; aperturá parrá, subrotundá, columellá brecilaminatá, fauce liratá.

THE MIGA NASSA. Shell owntely turreted, longitudinally obliquely plaited, encircled with impressed lines, yellowish or pink; aperture small, somewhat rounded, columella short-laminated, interior ridged.

Le Miga, Adanson, Voy. au Sénégal, pl. 8. f. 10. Buccinum Miga, Bruguière.

Nassa Miga, Deshayes.

Hab. Coasts of Barbary and West Africa.

The plaited ribs of this species run obliquely from right to left, not from left to right, as is commonly the case.

Species 87. (Mus. Cuming.)

NASSA GAYI. Nass. testă ovato-angustă, acuminată, fuscescente, longitudinaliter plicată, transversim striată, granulosă; anfractitus convexiusculis, ad suturas marginatis; columellă viv callosă; apertură parvă, alhā, ovată, fauce lirută.

GAY'S NASSA. Shell ovately narrow, acuminated, brownish, longitudinally plicated, transversely striated, granulated; whorls rather convex, margined at the sutures; columella scarcely callous; aperture small, white, ovate, interior ridged.

KIENER, Icon. coq. vivantes, p. 71. pl. 21. f. 79. Hab. Coast of Peru.

A brown, acuminated, grain-plaited species, with a small aperture.

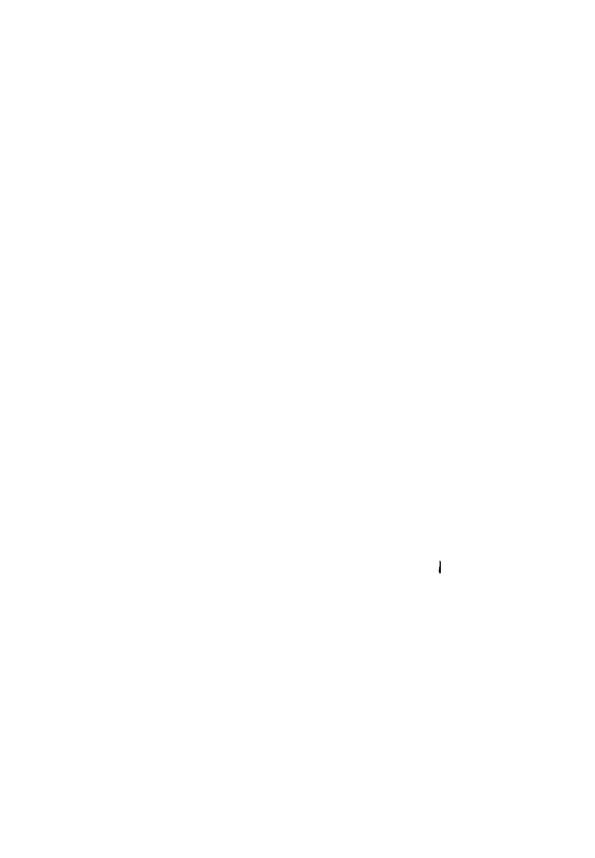
Species 88. (Mus. Cuming.)

NASSA FIDA. Nass. testa subglobosa, crassa, longitudinaliter plicata, plicis subdistantibus, conspiruè granosis, lutescente-alba, cincreo unifusciata; spira brevi; anfractibus supernè concavo-indentatis; opertura parva, columella brevitaminata, subrugosa.

THE TRUSTY NASSA. Shell subglobose, thick, longitudinally plaited, plaits rather distant, conspicuously granose, yellowish-white, encircled with an ash band; spire short; whorls concavely indented round the upper part; aperture small, columella short-laminated, subrugose.

Hab. -- ?

A small, stout, rather prickly grained shell, each whorl being concavely indented below the suture.









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Z. 38 324

PLATE XIV.

Species 89. (Mus. Cuming.)

NASSA SERTULA. Nass. testá acuminato-ovatá, lævi, nitidá, rufescente-fulvá, albo nebulosá; anfractibus converiusoulis, prope apicem tenuiplicatis; columellá brevilaminatá, labro subincrassato, varicoso, fauce liratá.

THE MEDILICOT NASSA. Shell acuminately ovate, smooth, shining, reddish-fulvous, clouded with white; whorls rather convex, finely plaited near the apex; columella short-laminated, lip rather thickened, varicose, interior ridged.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Island of Masbate, Philippines (on the reefs); Cuming.

Of a smooth, shining, rusty-brown aspect, relieved by a few white wave-spots.

Species 90. (Mus. Cuming.)

NASSA PULCHELLA. Nass. testá acuminato-turritá, nitidá, albidá, luteo varieyatá, rufo-fusco vittatá, longitudina-liter plicato-costatá, costis flexuosis, subdistantibus, supernè obsoletè nodulosis, columellá tenuicallosá; aperturá parvá, labro varicoso.

THE PRETTY NASSA. Shell acuminately turreted, shining, whitish, variegated with yellow, filleted with reddish-brown, longitudinally plicately ribbed, ribs flexuous, rather distant, obsoletely noduled at the upper part; columella thinly callous; aperture small, lip varicosc.

A. ADAMS, Pro. Zool. Soc. March 1851.

llab. Cape of Good Hope.

A delicately red-filleted, turreted shell, with the ribs waving flexuously from right to left.

Fig. 91. (Mus. Cuming.)

The shell here figured is the original type of N. concinna, Powis, described in the preceding Plate.

Species 92. (Mus. Cuming.)

NASSA TIABULA. Nass. testá ovatá, lutescente-albá, interdum pallide fasciatá; spirá acutá; anfractibus obsolete striatis, superné angulatis, ad angulum nodoso-tuberculatis; columellá callo subrepando, labro crasse varicoso.

THE LITTER TURBAN NASSA. Shell evate, vellowishwhite, sometimes faintly bended; spire sharp; whorls obsolctely striated, angled round the upper part, nodosely tubercled at the angle; columella with a somewhat spread callosity, lip thickly varicose.

KIENER, Icon. coq. vivantes, p. 111. pl. 30. f. 4. Hab. Madagascar.

Chiefly distinguished by its crown of nodose tubercles.

Species 93. (Mus. Cuming.)

NASSA ZONALIS. Nass. testă ovată, crassă, leviyată, tutescente-albă, purpureo-castaneo vivide trizonată, ad suturas subobsolete plicato-nodulosă, basi sulcată; apertură parvă, fauce lirată, columellă callosă, labro incrassato.

THE ZONED NASSA. Shell ovate, thick, smooth, yellowish-white, encircled with three deep purple-chestnut bands, rather obsoletely plicately noduled at the sutures, grooved at the base; aperture small, interior ridged, columella callous, lip thickened.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Island of Ticao, Philippines (on the recfs); Cuming.

A solid, purple-chestnut, banded species, having somewhat the aspect of a Tornatella.

Fig. 94. (Mus. Cuming.)

A variety of *N. planicostata*, Sp. 76, in which the ribs are larger, and of a peculiar livid aspect.

Species 95. (Mus. Cuming.)

NASSA LIBELLA. Nass. testa ovata, crassinscula, albida, ferrugineo-fusco obscurè maculata, longitudinaliter no-doso-plicata, plicis subflexuosis, striis impressis trunsversis decussatis; anfractibus sulco prope suturas cinqulatis; apertura parca, columella crassè callosa, labro varicoso.

THE LITTLE HARP NASSA. Shell ovate, rather thick, whitish, obscurely blotched with rust-brown, longitudinally nodosely plicated, plaits slightly flexuous, decussated with impressed striæ; whorls encircled near the sutures with a groove; aperture small. columella thickly callous, lip varicose.

BECK, MSS. Mus. Cuming.

Hab. --- ?

The specimen here figured is not in very good condition, but it is characteristic in form and sculpture.



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PLATE XV.

Species 96. (Mus. Cuming.)

NASSA SOBDIDA. Nass. testá ovatá, albidá, fuscescente fasciatá; spirá subacutá, suturá canaliculatá; longitudinaliter costatá, costis acutis, numerosis, tineis impressis decussatis; columellá calloso-laminatá, labro subincrassato.

The sordid Nassa. Shell ovate, whitish, banded with light brown; spire rather sharp, suture channelled; longitudinally ribbed, ribs sharp, numerous, decussated with impressed lines; columella callously laminated, lip rather thickened.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hub. Island of Siquijor, Philippines (on the reefs); Cuming.

 Λ close-ribbed species rather impressed at the sutures, with very much the aspect of a Cancellaria.

Species 97. (Mus. Cuming.)

NASSA NODICOSTATA. Nass. testé ovato-conicé, albidé, fascié pallidè fulvé interrupté cincté; anfractibus planulatis, supernè angulatis, longitudinaliter costatis, costis angustis, distantibus, peculiariter nodulatis; columellé excavaté, labro subincrassato, varicoso.

THE KNOTTED-RIBBED NASSA. Shell ovately conical, whitish, encircled with a light fulvous interrupted band; ribs flattened, angled round the upper part, longitudinally ribbed, ribs narrow, distant, peculiarly noduled; columella excavated, lip rather thickened, variouse.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Island of Corrigidor, Philippines (in coarse sand at six fathoms); Cuming.

This pretty species, like the preceding, has very much the aspect of a Cancellaria.

Species 98. (Mus. Cuming.)

NASSA TEGULA. Nass. testá ovato-conicá, subgibbosá, lævi, nigricante-cinercá, fasciá lutescente cinctá; spirá breviusculá, acutá; anfracțibus superne angulatis, ad angulum tuberculație; apertură parod, columellă arcuată, callositate tenui repando, lebro crasse varioseo.

THE SLATE NASSA. Shell ovately conicel, rather gibbous, smooth, blackish-ash, encircled with a yellowish band;

spire rather short, sharp; whorls angled at the upper part, tubercled at the angle; aperture small, columella arched, with a thin spread callosity; lip thickly varicose.

Hab. _____

A gibbous tubercled species of a peculiar livid slatecolour, encircled with a yellowish band.

Species 99. (Mus. Cuming.)

NASSA CORONULA. Nass. testá orato-conicá, olivaceo-cinereá, alhifasciatá; spirá brevi; anfractibus ud suturas angulatis, longitudinaliter costatis, costis distantibus, solidis, ad angulum obtuse nodatis, albidis; aperturá minutá, columellá callosá, rugosá, lubro incrassato, fauce liratá.

THE LITTLE CROWN NASSA. Shell ovately conical, oliveash, white-banded, spire short; whorls angled at the sutures, longitudinally ribbed, ribs distant, solid, obtusely noduled at the angles, whitish; aperture very small, columella callous, rugose, lip thickened, interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Island of Corrigidor, Philippines (under stones at low water); Cuming.

A very solid wide-ribbed species, with somewhat the aspect of a miniature Volute.

Species 100. (Mus. Cuming.)

NASSA ALBESCENS. Nass. testd ovată, albă; anfractibus convexis, plicis tenuibus longitudinalibus obliquis lirisque transversis dense nodulono-cancellatis; columellă excavată, callosilate subrepandă, fauce incrassată, lirată, labro simplici.

THE WHITISH NASSA. Shell ovate, white; whorls convex, densely nodulously cancellated with thin longitudinal oblique plaits and transverse ridges; columella excavated, with a slightly spread callosity, interior thickened, lip simple.

Buccinum albescens, Dunker, Philippi, Abbild. und Besch. Conch. p. 68. pl. 2. f. 15.

Hab. West Indies.

A delicate opake white shell, densely cancellated throughout.

Species 101. (Mus. Cuming.)

- 188A EXILIS. Nass. testá cylindraceo-ovatá, olivaceá vel purpureo-nigricante obscure fasciatá; spirá acuminatá; anfractibus longitudinaliter plicato-costatis, costis flexuosis, ad suturas granulatis; aperturá parvá, parum callosá, labro incrassato.
- HE SLENDER NASSA. Shell cylindrically ovate, obscurely banded with olive or purple-black; spire acuminated; whorls longitudinally plicately ribbed, ribs flexuous, granulated at the sutures; aperture small, but little callous, lip thickened.
- r WIS, Fro. 2001. DOC. 1000, p. ou.
- 1 b. Payta, Peru (under stones); Cuming.

A livid dark species, of a cylindrically ovate form, delicely flexuously ribbed.

rig. 102. (maus. ouming.)

A characteristic variety of N. pauperata represented at ate VI. Sp. 27.















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PLATE XVI.

Species 103. (Mus. Cuming.)

NASSA MACULATA. Nass. testă anguste acuminată, lævi, polită, lineis impressis distantibus cingulată, albă, maculis rufo fuscis longitudinaliter flexuosis bifasciatim ciuctă; apertură parvă, fauce lirată, columellă brevilaminată, basi plicată et subproductă, labro varicoso.

THE BLOTCHED NASSA. Shell narrowly acuminated, smooth, polished, encircled with distant impressed lines, white, encircled with two bands of longitudinally flexuous red-brown spots; aperture small, interior ridged, columella short-laminated, plaited and rather produced at the base, lip varicose.

Aciculina maculata, A. Adams, Pro. Zool. Soc. March 1851.

Ilub. Isle of Luzon, Philippines (in muddy sand at low water); Cuming.

A polished Eulima-like species, faintly spotted with brown.

Species 104. (Mus. Cuming.)

NASSA TERETIUSCULA. Nass. testá subturritá, lutescente aut cinereo-olivaceá, fasciá aut lineá rufá cingulatá, lævi, nitidá, longitudinaliter plicatá; aperturá parvá, columellá brevi-laminatá, labro varicoso.

THE SUBTERETE NASSA. Shell subturreted, yellowish or ash-olive, encircled with a red band or line, smooth, shining, longitudinally plaited; aperture small, columella short-laminated, lip varicose.

A. Adams, Pro. Zool. Soc. March 1851.

Hub. Eastern Seas.

A small, shining, subtransparent shell, of an ash-olive colour, encircled with a red line or band.

Species 105. (Mus. Cuming.)

NASSA DBALBATA. Nass. testá subacuminato-conicá, opacoalbá, fusciá pallidò luted cinclá, liris transversis et longitudinalibus confertim noduloso-reticulatá, sulco infra suturas; columellá brevilaminatá; aperturá parvá, fauce liratá, labro varicoso.

THE WHITENED NASSA. Shell somewhat acuminately conical, opake-white, encircled with a faint yellowish band, closely nodulously reticulated with longitudinal and transverse ridges, with a groove beneath the

sutures; columella short-laminated; aperture small, interior ridged, lip varicose.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Dumaguete, Isle of Negros, Philippines (in black coarse sand at eleven fathoms); Cunning.

Sculptured throughout with a strong closely reticulated pattern.

Species 106. (Mus. Cuming.)

NASSA COMPTA. Nass. testá ovato-conicá, subacuminatá, fulvo-rufescente, prope suturas pallide variegatá; anfractibus convexis, hevibus, prope apicem costellatis; columellá callosá, labro subcalloso, fauce liratá.

THE NEAT NASSA. Shell ovately conic, somewhat acuminated, fulvous-red, palely variegated near the sutures; whorls convex, smooth, finely ribbed near the apex; columella callous, lip rather callous, interior ridged.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Cape St. Antonio, Africa.

A smooth, fulvous-brown shell, faintly blotched with lighter colour at the sutures.

Species 107. (Mus. Cuming.)

NASSA CEROTINA. Nass. testá acuminato-turritá, Intescente-roseá, longitudinaliter plicato-costatá, interstitiis obsoletè clathratis, anfractu ultimo basi bilirato: aperturá paroá, columellá subcallosá, labro varicoso.

THE WAXEN NASSA. Shell acuminately turreted, yellowish-rose, longitudinally plicately ribbed, interstices obsoletely latticed, last whorl two-ridged at the base; aperture small, columella subcallous, lip varicose.

A. ADAMS, Pro. Zool. Soc. March 1851. Hab. Australia.

A narrow, acuminated shell, obliquely longitudinally ribbed throughout with a delicate, yellowish-pink, waxen aspect.

· . Species 108. (Mus. Cuming.)

MA PALLIDULA. Nass. testă ovată, ventricosă, pallidă, maculis fuscescentibus obscure bifasciată; spiră sub-acuminată, suturis anguste canaliculatis; anfractibus plano-convexis, lævibus, basi sulcatis; columellă arcu-

atá, supernè callositate parvá instructá, fauce liratá, labro subexpanso, crassè varicoso.

THE PALE NASSA. Shell ovate, ventricose, pale, obscurely tinged with two bands of light brown spots; spire rather acuminated; sutures narrowly channelled; whorls flatly convex, smooth, grooved at the base; columella arched, furnished at the upper part with a small callosity, interior ridged, lip rather expanded, thickly varicose.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Malacca (in coarse sand at ten fathoms); Cuming.

A smooth, pale, subventricose species, with the spire delicately channelled.

Species 109. (Mus. Cuming.)

NASSA LUCTUOSA. Nass. testá acuminato-ovatá, purpureo-

nigra, transversim tennisulcata, prope apioem longitudinaliter plicală; anfractibus planulatis, ad sulurus irregulariter noduloso-marginatis; apertura parva, fauce lirată, columellă labroque crasse callosis.

THE MOURNING NASSA. Shell acuminately ovate, purple-black, transversely finely ridged, longitudinally plaited near the apex; whorls flattened, irregularly nodulously margined at the sutures; aperture small, interior ridged, lip and columella thickly callous.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Cagayan, Isle of Mindanao, Philippines (under stones on the reefs); Cuming.

A very dark purple-black solid species, finely transversely grooved throughout, and irregularly nodulously margined at the sutures.

























PLATE XVII.

Species 110. (Mus. Cuming.)

NASSA VERSICOLOB. Nass. testă ovato-conică, lutescente, ad basin fasciă rufo-fuscă cingulată; sutură nigricante-fuscă; anfractibus rotundatis, transversim striatis, longitudinaliter fortiter costatis; apertură parvă, columellă subcallosă, labro varicoso.

THE VARICOLOURED NASSA. Shell ovately conic, yellowish, encircled with a broad red-brown band at the base; suture blackish-brown; whorls rounded, transversely striated, longitudinally strongly ribbed; aperture small, columella rather callous, lip varicose.

C. B. ADAMS, Cat. Shells of Panama, p. 66.

Ilab. Panama.

Sculptured throughout with strong ribs over rounded whorls.

Species 111. (Mus. Cuming.)

NASSA COMPLANATA. Nass. testá ovatá, olivaceá vel cinereá, luteo-fasciatá, longitudinaliter oblique granoso-plicatá; anfractu ultimo plus minus complanato; aperturá parvá, fauce liratá, columellá simplici, labro varicoso.

THE SMOOTH NASSA. Shell ovate, olive or ash, banded with yellow, longitudinally obliquely granosely plaited; last whorl more or less smooth; aperture small, interior ridged, columella simple, lip varicose.

Powis, Pro. Zool. Soc. 1835, p. 96.

Ilab. Atacamas, West Columbia (under stones); Cuming.

Obliquely grain-plaited from the apex downwards, the plaits partially disappearing on the last whorl.

Fig. 112, (Mus. Cuming.)

This shell, which is the type of N. rufocincta, A. Adams, is a variety of N. versicolor, C. B. Adams, figured above it.

Species 113. (Mus. Cuming.)

Nassa sinusidena. Nass. testá ovato-conicá, solidiusculá, obliguá, albidá, rufo-fusco tinetá et vittatá, longitudinaliter costatá, costis subferuosis, ad suturas granulatis; estumellá callosa et rugosa, apertura paroá, fauce biratá, superné simiatá, labro varicoso, inferné sinuato.

THE SINUATED NASSA. Shell ovately conical, rather solid, oblique, whitleth, statued and sileted, with redbrown, longitudinally ribbed, ribs slight sexuous, granulated at the sutures; columella callous and wrinkled, apenture small, interior ridged, sinuated at the upper part, lip various, sinuated at the upper part, lip various, sinuated at the upper part, lip various, sinuated at the lower part. A. Adams, Pro. Engl. Soc. March, 1881.

Hab. Island of Samar, Philippines (in coarse sand at eight fathoms): Cuming.

A yery characteristic species, peculiar both in form and sculpture.

Species 114. (Mus. Cuming.)

NASSA INCRASSATA. Nass. lestá conico-turritá, fulvescents-luteá, castaneo plus minus fascialá; anfractions rotundatis, longitudinaliter costatis, transversim noduloso-liratis; aperturá parviusculá, columellá arcustá, callosá, labro peculiariter prominente varicoso.

THE THICKENED NASSA. Shell conically turreted, fulvous yellow, more or less banded with chestnut; whorls rounded, longitudinally ribbed, transversely nodulously ridged; aperture rather small, columella arched, callous, lip peculiarly prominently varicose.

Tritonium incrassatum, Müller, Zoologia Danica, Prodrome, No. 2946.

Murex incrassatus, Gmelin.

Nassa incrassata, Deshayes.

Buccinum minutum, Pennant.

Buccinum macula, Montagu.

Buccinum Ascanias. Bruguière.

Buccinum asperulum, Philippi.

Buccinum Lacepedii, Payraudeau.

Hab. Seas of Europe.

9 A

This well-known European species is peculiarly distinguished by the prominent development of the varix bordering the lip.

Fig. 115. (Mus. Cuming.)

A characteristic dwarf variety of N. Antillarum described at Plate XII.

Species 116. (Mus. Cuming.)

Nassa semigranosa. Nass. testá ovalo-conicá, allá, luteo interdum variegatá, nitidá; anfractibus transversim tenuissimè striatis, prope suturas longitudinaliter plicatis, plicis supernè bi-tri-tuberculatis; aperturá ovalá, columellá subcallosá, lavigatá, labro varicoso.

The Half-Grained Nassa. Shell ovate conical, white, sometimes variegated with yellow, shining; whorls transversely very finely striated, longitudinally plaited near the sutures, plaits two-three-tubercled at the upper part; aperture ovate, columella rather callous, smooth, lip varicose.

Buccinum semigranosum, Dunker, Zeitschrift für Malac.

1846, p. 170. Hab. —— ?

A shining ivory-like shell, in which the longitudinal planes are broken up next the sutures into granules.

Vassa, Pl.XFIII.

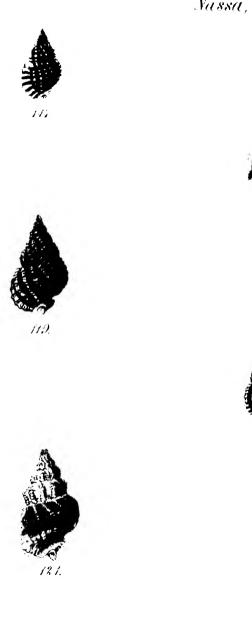








PLATE XVIII.

Species 117. (Mus. Cuming.)

NASSA FESTIVA. Nass. testá ovatá, crassá, albá aut cærulescente, nigro-fusco tinctá et lineatá, longitudinaliter subrudè nodoso-costatá, transversim sulcatá; aperturá ovatá, fauce valdè liratá, columellá brevilaminatá, labro crassè varicoso.

THE PLEASANT NASSA. Shell ovate, thick, white or bluish, stained and lineated with black-brown, longitudinally rather rudely nodosely ribbed, transversely grooved; aperture ovate, interior strongly ridged, columella short-laminated, lip thickly varicose.

Powis, Pro. Zool. Soc. 1835, p. 95.

Hab. Panama and St. Elena (in sandy mud in six to ten fathoms); Cuming.

A fine solid species conspicuously noduled throughout, the nodules being white upon the dark ground of the interstices.

Species 118. (Mus. Cuming.)

NASSA VARICIFERA. Nass. testá subelongato-turritá, albidá, fasciis duabus ferrugineo-fuscis cingulatá; spirá exsertá, suturá subcanaliculatá; anfractibus planiusculis, transversim densè impresso-striatis, longitudinaliter crebriplicatis, varice crasso calloso hic illic instructis; aperturá parvá, fauce denticulatá, columellá arcuatá, basi contortá, labro varicoso.

THE VARICOSE NASSA. Shell somewhat clongately turreted, whitish, encircled with two rust-brown bands; spire exserted, suture slightly channelled; whorls rather flat, transversely densely impressly striated, longitudinally closely plaited, furnished here and there with a thick varix; aperture small, interior denticulated, columella arched, twisted at the base, lip varicose.

A. ADAMS, Pro. Zool. Soc. March 1851. Hab. Eastern Sess.

This singular Scalaria-like species partakes very much. of the character of Triton.

Species 119. (Mus. Cuming.)

NASSA MYRISTICA. Nass. testa globoso-acuminata, crassa, solida, sordida alba, fusco lineata; estrá elevata; enfractibus rotundatis, oblique longitudinaliter costatis;

costis fortibus, rotundatis, liris transversis filiformibus nitide decussatis; apertura parviuscula, valde lirata, columella labroque crasse callosis.

THE NUTMEG NASSA. Shell globosely acuminated, thick, solid, dirty white, lineated with brown; spire raised: whorls rounded, obliquely longitudinally ribbed, ribs strong, rounded, neatly crossed with transverse filform ridges; aperture rather small, strongly ridged, lip and columella thickly callous.

HINDS, Moll. Voy. Sulphur, pl. 9. f. 10 and 11. Hab. Cape of Good Hope; Hinds.

A very characteristic solid subglobose species, strongly obliquely ribbed, the ribs being crossed at regular intervals with painted thread-like ridges.

Species 120. (Mus. Cuming.)

NASSA TRITONIFORMIS. Nass. testá acuminato-conicá, basi contortá, livido-cinereá, fusco hic illic tinctá; longitudinaliter plicato-costellatá, liris transversis no-doso-reticulatá, nodis alhidis; aperturá parvá, fauce valdè liratá, columellá arcuatá, tennilaminatá, corrugatá, labro enormiter varicoso.

THE TRITON-SHAPED NASSA. Shell acuminately conic, twisted at the base, livid-ash, stained here and there with brown; longitudinally plicately ribbed, nodosely reticulated with transverse ridges, nodules white; aperture small, interior strongly ridged, columella arched, thinly laminated and wrinkled, lip enormously varicose.

KIENER, Icon. coq. vivantes, p. 108. pl. 30. f. 2.
Hab. Island of Luzon, Philippines (on mud-banks); Cuming.

Belonging to the same peculiar type of the genus as the European N. incraseats.

Species 121. (Mus. Cuming.)

NABBA DECUBBATA. Nava. testá ovato-conicá, basi contortá, albidá, fusco tinctá et obscure fascialá; anfractibus medio angulatis, transversim filoso-liratis, lungitudinaliter plicato-costatis, costis ad angulum compresso-nodatis; aperturá rotundatá, fauce liratá, columellá calloso-laminatá, labro varicoso.

THE DECUSSATED NASSA. Shell ovately conical, twisted at the base, whitish, stained and obscurely banded with brown; whorls angled in the middle, transversely thread-ridged, longitudinally plait-ribbed, ribs compressly noduled at the angle; aperture rounded, interior ridged, columella callously laminated, lip varicose.

KIENER, Icon. coq. vivantes, p. 109. pl. 30. f. 3. Hab. Brisbane Water, East Australia; Strange.

More angular and less varicose than the preceding species.

Species 122. (Mus. Cuming.)

NASSA NIVEA. Nass. testá pyramiduli-conicá, candidá; spirá acutá, suturá impressá; anfractibus planulatis, longitudinaliter subdistanter plicatis, transversim sulcatis; aperturá parvá, fauce liratá, columellá laminá callosá, labro simplici.

THE SNOWY NASSA. Shell pyramidally conical, white; spire sharp, suture impressed; whorls flattened, longitudinally rather distantly plaited, transversely grooved; aperture small, interior ridged, columella with a callous lamina, lip simple.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Batangas, Island of Luzon, Philippines (in coarse sand at twenty-one fathoms); Cuming.

A solid colourless pyramidally conical species, sculptured with gentle ripple-like plaits, crossed with numerous linear grooves.

Species 123. (Mus. Cuming.)

NASSA POLYGONATA. Nass. testá globoso-conicá, crassi, albidá, fusco-rubente tinctá et lineatá; spirá acutá; anfractibus rotundatis, longitudinaliter plicato-contatis, transversim filoso-liratis; aperturá parcá, fortiter liratá, columellá laminatá et plicatá, labro valdè incrassato, varicoso.

THE MANY-ANGLED NASSA. Shell globosely conical, thick, whitish, stained and lineated with brown-red; spire sharp; whorls rounded, longitudinally plicately ribbed, transversely thread-ridged; aperture small, strongly ridged, columella laminated and plaited, lip very thickened, varicose.

LAMARCK, Anim. sans vert. (Deshayes' edit.) vol. 10. p. 184.

Hab. Isle of Camiguing, Philippines (in sandy mud at thirty fathoms); Cuming.

A solid globose species, approaching in general aspect a well-known form of Cancellaria.





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PLATE XIX.

Species 124. (Mus. Cuming.)

NASSA BADIA. Nass. testă ovato-acuminată, lævi, nitidă, castaneă; anfractibus planis, supremis longitudinaliter plicatis, anfractu ultimo transversim obsolete striato; columellă simplici, vix callosă, labro varicoso, intus denticulato.

The Brown Nassa. Shell ovately acuminated, smooth, shining, chestnut; whorls flat, the uppermost longitudinally plaited, last whorl transversely obsoletely striated; columella simple, slightly callous, lip varicose, denticulated within.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Island of Luzon, Philippines (on the reefs); Cuming.

A solid brown acuminated shell, with no sculpture except near the apex.

Species 125. (Mus. Cuming.)

NASSA CLATHRATULA. Nass. test ovatá, niveä; spiră acută; anfractibus converis, longitudinaliter costată, costis muricato-nodulosis, interstitiis valde clathratis; columellă brevilaminată; apertură parvă, fauce fortiter lirată. labro incrassato.

THE LATTICED NASSA. Shell ovate, snow-white; spire acute; whorls convex, longitudinally ribbed, ribs prickly nodulous, interstices strongly latticed; columella short-laminated; aperture small, interior strongly ridged, lip thickened.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Island of Siquijor, Philippines (in sandy mud, deep water); Cuming.

Peculiarly characterized by the very strong latticed sculpture in the interstices between the ribs.

Species 126. (Mus. Cuming.)

NASSA CINNAMOMEA. Nass. testá ovato-acuminatá, cinnamomeá, lævi, nitidá, tenui, subpeticidá; anfractibus convexis, ad suturas tenuimarginátis; columellá simplici, labro varicoso, intus obsoletá denticulato.

THE CINNAMON NASSA. Shell ovately acuminated, cinnamon, smooth, shining, thin, somewhat transparent; whorls convex, finely margined at the sutures; columella simple, lip variouse, obsoletely denticulated within.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Isle of Negros, Philippines (under stones at low water); Cuming.

A light subtransparent cinnamon-brown shell, smooth throughout.

Species 127. (Mus. Cuming.)

NASSA FUSCATA. Nass. testă ovată, fuscă; spiră acuminată; anfractibus convexiusculis, longitudinaliter plicatis, transversim liratis, plicis ad liras tuberculatis, interstitiis lineatis; columellă rugosă, labro incrassato, intus dentato.

THE BROWN NASSA. Shell ovate, brown; spire acuminated; whorls rather convex, longitudinally plaited, transversely ridged, plaits tuberculated on the ridges, interstices lineated; columella wrinkled, lip thickened, toothed within.

A. ADAMS, Pro. Zool, Soc. March 1851.

Hab. ---?

Approximating more to the ordinary type of Buccinum than of Nassa.

Species 128. (Mus. Cuming.)

NASSA MITRALIS. Nass. testá fusiformi-conicá, fuscá, lænigatá, prope apicem et pone labrum plicatá, basi sulçatá; suturá tenuimarginatá; columellá simplici, labro intus incrassato.

THE MITRE-LIKE NASSA. Shell fusiform, conical, brown, smooth, plaited near the apex and behind the lip, grooved at the base; suture thinly margined; columella simple, lip thickened within.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Isle of Negros, Philippines (on mud-banks); Cuming.

Plaited near the apex, then smooth, then plaited again behind the lip.

Species 129. (Mus. Cuming.)

NASSA VARIABILIS. Nass. testá acuminato-ovatá, lulescente-albá, nitente, fasciá rufescente cingulatá, longitudinaliter flexuoso-plicatá, transversim impresso-striatá; columellá calloso-laminatá, subexcavatá, lagro simplici, fauce liratá. THE VARIABLE NASSA. Shell acuminately ovate, yellowish-white, shining, encircled with a reddish band, longitudinally flexuously plaited, transversely impressly striated; columella callously laminated, rather excavated, lip simple, interior ridged.

PHILIPPI, Mus. Cuming.

Hab. ---- P

A pale solid species, flexuously plaited and encircled with a characteristic red band.

Species 130. (Mus. Cuming.)

NASSA DENTIFERA. Nass. testá ovatá, subventricosá, oli-

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doso-plicatd, interstitiis lavibus; columelld brevilaminatd, labro simplici, varicoso.

THE TOOTHED NASSA. Shell ovate, subventricese, olivebrown, encircled with a whitish zone, longitudinally nodosely plaited, interstices smooth; columella shortlaminated, lip simple, varioose.

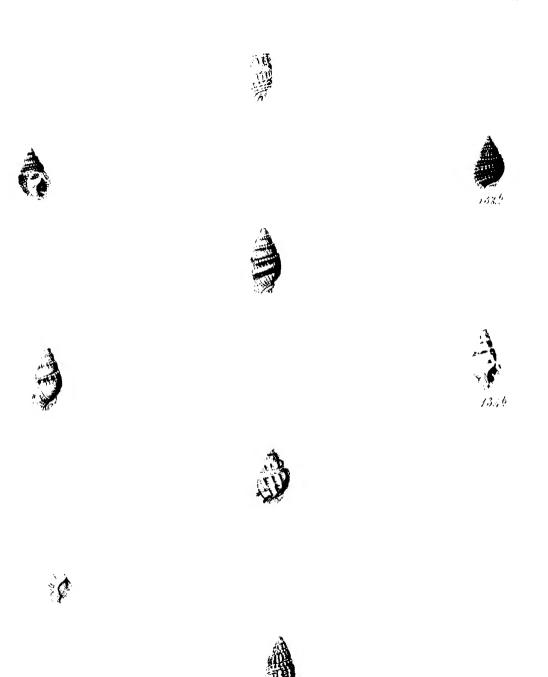
Pow18, Pro. Zool. Soc. 1835, p. 95.

Hab. Bay of Arica, South America (in mud at ten fathoms); Powis.

The longitudinal plaits are very concentrically inclined in this species, and are characteristically noduled throughout.



Nassa, PLXX



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PLATE XX.

Species 131. (Mus. Cuming.)

NASSA ECHINATA. Nass. testá ovatá, altidá; anfractibus planiusculis, superne declivi-angulatis, longitudinaliter tenuiplicatis, plicis lateraliter appressis et echinato-nodosis; aperturá parvá, columellá callositate parvá, labro incrassato, varicoso.

THE PRICKLY NASSA. Shell ovate, whitish; whorls rather flat, slantingly angled round the upper part, longitudinally thinly plaited, plaits laterally appressed and prickly nodose; aperture small, with a small callosity, lip thickened, varicose.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Isle of Mindoro, Philippines (in sandy mud at three fathous); Cuming.

The thin longitudinal plaits are peculiarly appressed on one side, and fall in prickly festoons.

Species 132. (Mus. Cuming.)

NASSA GEMMULIFERA. Nass. testá ovato-conicá, albidá aut cinerascente, fusco tinctá et fusciatá; spirá acutá; anfractibus longitudinaliter plicatis, plicis nodoso-granulatis, sulcis transversis decussatis; columellá callo expanso albo, labro simplici, fauce tiratá.

THE GEMMED NASSA. Shell ovately conical, whitish or ash-coloured, stained and banded with brown; spire sharp; whorls longitudinally plaited, plaits nodulously granulated, decussated by transverse grooves; columella with a white expanded callosity, lip simple, interior ridged.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Island of Burias, Philippines (in coarse sand at six fathoms); Cuming.

The surface of this species is closely largely granulated throughout.

Species 133. (Mus. Cuming.)

NASSA C.ELATA. Nass. testá ovatá, acuminatá, albidá, rufescente fasciatá; spirá acutá, suturá subcanaliculutá; anfractibus planiconvexis, longitudináliter dense costellatis, interstitiis liris transversis concided cancellatis, costellis ad suturas elongato-granulatis; columellá breviluminatá, labro varicoso, fauce liratá.

THE CARVED NASSA. Shell ovate, acuminated, whitish, banded with pale red; spire sharp, suture slightly channelled; whorls flatly convex, longitudinally densely fine-ribbed, interstices neatly cancellated with transverse ridges, riblets elongately granuled at the sutures; columella short-laminated, lip varicose, interior ridged.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Island of Mindanao, Philippines (in sandy mud at twenty-five fathoms); Cuming.

A solid closely cancellated species, in which the longitudinal riblets have the form of elongated granules next the sutures.

Fig. 134. (Mus. Cuming.)

A variety of *N. variabilis* of the preceding Plate, of more transparent texture, less strongly plaited, with only the faintest indication of a central band.

Species 135. (Mus. Cuming.)

NASSA OBTUSATA. Nass. testá subgloboso-conicá, albá, rufo vitlatim maculatá, longitudinaliter costatá, costis distantibum superné obtusé tuberculatis, interstitiis liris transversis crebri-cancellatis; aperturá parviusculá, fauce liratá, columellá callosá, labro incrassato, varicoso.

THE BLUNTED NASSA. Shell somewhat globosely conical, white, filleted with spots of red, longitudinally ribbed, ribs distant, tubercled at the upper part, interstices closely cancellated with transverse ridges; aperture rather small, interior ridged, columella callous, lip thickened, varicose.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Island of Ticao, Philippines (in coral sand at seven fathoms); Cuming.

Chiefly distinguished by the obtuse widely separated character of the ribs, and the fine-ridged sculpture of the interstices.

Species 136. (Mus. Cuming.)

NASSA MULTICOSTATA. Nass. testă ocată, acuminată, albă, interdum rufescente variegată, longitudinaliter tenuicostată, costis numerosis, confertis; columellă callosă, labra simplici, intus obsolete denticulato.

THE MANY-RIBBED NASSA. Shell ovate, acuminated, white, sometimes variegated with pale red, longitudinally finely ribbed, ribs numerous, close-set; columella callous, lip simple, obsoletely denticulated within.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Island of Luzon, Philippines (in coarse sand at four fathoms); Cuming.

A very delicate close-ribbed species, the ribs being finer and more numerous as they approach the lip.

Fig. 137. (Mus. Cuming.)

A well-marked variety of N. Gayi described at Plate XIII. Sp. 87.



Nassa, 11.XX





























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PLATE XXI.

Species 138. (Mus. Cuming.)

NASSA FISSILABRIS. Nass. testá ovato-conicá, obliquá, cinerascente, pallide fasciatá, longitudinaliter costatá; anfractu ultimo antice transversim sulcato; columellá callo expanso, antice tuberculis duobus transversis, labro incrassato, superne inciso.

THE SLIT-LIP NASSA. Shell ovately conical, oblique, ash, faintly banded, longitudinally ribbed; last whorl transversely grooved in front; columella with an expanded callosity, with two transverse tubercles in front, lip thickened, slit at the apper part.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Island of Mindanao, Philippines (in sandy mud at twenty-five fathoms); Cuming.

A rather solid species, with a characteristic Pleurotomalike slit in the lip.

Species 139. (Mus. Cuming.)

NASSA GLAUGA. Nass. testá ovato-conicá, ventricosá, glaucá, fasciá albá supra suturam; spirá acutá, suturá impressá; anfractibus longitudinaliter costatis, costis distantibus, transversim tenuistriatis; columellá basi contortá et peculiariter sulcutá, aperturá parvá, labro fortiler varicoso.

THE GLAUCOUS NASSA. Shell ovately conical, ventricose, glaucous, with a whitish band above the suture; spire sharp, suture impressed; whorls longitudinally ribbed, ribs distant, transversely finely striated; columella twisted and peculiarly grooved at the base, aperture small, lip strongly varicose.

C. B. Adams, Shells of Panama, p. 61.

IIab. Taboga, Panama.

A strongly marked species, chiefly distinguished for its sutural and basal grooves.

Species 140. (Mus. Cuming.)

NASSA MICANS. Nass. testá ovato-fusiformi, fumeo-albá, nitidissimá; anfractibus convexiusculis, prope apicem costellatis; columellá callo tenuissimo, labro basi crenulato, fance liratá.

THE GLITTERING NASSA. Shell ovately fusiform, smoky white, very shining; whorls rather convex, ribbed near the apex; columnla with a very thin callosity, lip crenulated as the base, interior ridged.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Island of Mindanao, Philippines (in sandy mud at twenty-five fathoms); Cuming.

A fusiform species, with a shining semifossil aspect.

Species 141. (Mus. Cuming.)

NASSA DORSUOSA. Nass. testá ovalá, depressá, dorso conspicuè gibboso-tuberculatá, olivaceá, lævi, prope apicem longitudinaliter subplicatá; apertará parvá, columellá callo peramplo usque ad apicem repando labro crassè juncto.

THE HUMPED-BACK NASSA. Shell ovate, depressed, conspicuously gibbously tuberculated at the back, olive, smooth, longitudinally subplicated at the apex; aperture small, columella with a very large callosity spread to the apex and joining thickly with the lip.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Island of Masbate, Philippines (on mud-banks at low water); Cuming.

Remarkably distinguished for its tuberculated hump and thickly spread callosity.

Species 142. (Mus. Cuming.)

NASSA COSTATA. Nass. lestá ovato-conicá; spirá acutá, productá, pallidá, anfractu ultimo macutá rufo-fuscá tincto; anfractibus convexiusculis, longitudinaliter costatis, costis supernè plano-nodatis; columellá breviluminatá, labro simplici, basi crenulato, fauce liratá.

THE RIBBED NASSA. Shell ovately conical; spire sharp, produced, pale, last whorl stained with a red-brown spot; whorls rather convex, longitudinally ribbed, ribs flatly noduled at the upper part; columella short-laminated, lip simple, crenulated at the base, interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. Island of Burias, Philippines (in sandy mud at six fathoms); Cuming.

The ribs are close-set and rather flexuous, the spire sharp and erect.

Species 143. (Mus. Cuming.)

NASSA STIMPSONIANA. Nass. testá acuminato-conicá,

alra-cinerea, lineis albidis interruptis cingulata, longitudinaliter crusse plicato-costata, transversim lirata et subtilissime striata; apertura parva, columella brerilaminata, labro crusse varicoso, intus denticulato.

STIMPSON'S NASSA. Shell acuminately conical, black-ash, encircled with interrupted white lines, longitudinally thickly plicately ribbed, transversely ridged and very finely striated; aperture small, columella short-laminated, lip thickly varicose, denticulated within.

Buccinum Stimpsonianum, C. B. Adams, Panama Shells, p. 72.

Hub. Panama (under stones near low-water mark); C. B. Adams.

Encircled with fine ridges, which on crossing the ribs are whitish and look like interrupted lines.

Species 144. (Mus. Cuming.)

NASSA ALBIPUNCTATA. Nass. testa ovato-turrită, pallidă, fasciis rufescentibus albipunctatis subobscure cinctă, longitudinaliter costată; anfractibus rotundatis, liris tenuibus acutis supernd et inferne cingulatis; apertură parvă, fauce denticulată, columellă brevilaminată, labro crasse naricoso.

The white-dotted Nassa. Shell ovately turreted, pale, rather obscurely encircled with faint reddish-white dotted bands, longitudinally ribbed; whorls rounded, encircled round the upper and lower parts with fine sharp ridges; aperture small, interior denticulated, columella short-laminated, lip thickly variouse.

Hab. ---?

A solid conspicuously ribbed shell, distinguished by its faint white-dotted bands.

Nassa, Pl. XXII.

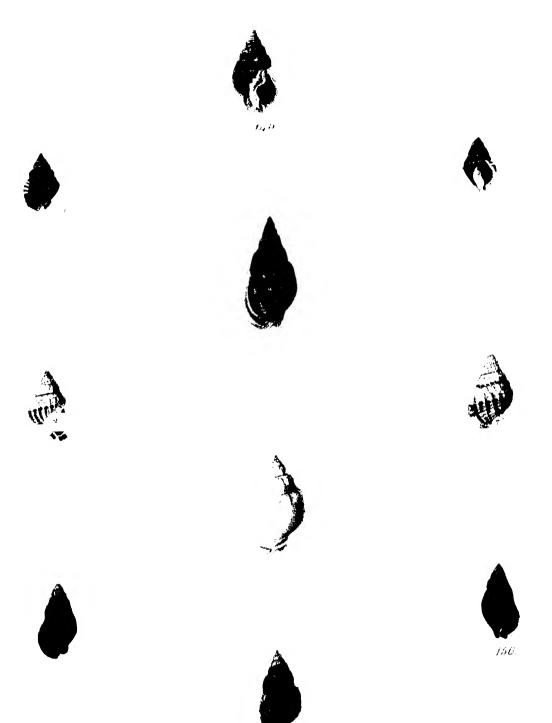


PLATE XXII.

Species 145. (Mus. Cuming.)

- NASSA ALGIDA. Nass. testá ovato-canicá, lævigatá, nitidá, otivaceá, fusco et albo strigatá et macutatá; spirá acutá, suturá subimpressá; aufractibus prope apicem plicatis, ad suturas obsoleté rudé plicato-nodosis; columellá subexcavatá, callosá, tabro subincrassato, anticè minuté denticulato.
- THE CHILLED NASSA. Shell ovately conical, smooth, shining, olive, streaked and blotched with brown and white; spire sharp, suture rather impressed; whorls plaited near the apex, obsoletely rudely plicately noduled at the sutures; columella rather excavated, callous, lip rather thickened, minutely denticulated in front.

Hub. Moreton Bay, Australia; Strange.

Of a peculiar livid-olive colour, milk-blotched here and there, and painted longitudinally with waved brown streaks,

Species 146. (Mus. Cuming.)

- Nassa cinisculus. Nass. testă oculă, subventricosă, fusco-nigră, albo indistincté zonată, longitudinaliter pliculo-costulă, costis liris transversis decussatis ; apertură parvă, fauce lirată, columellă culloso-laminată, lubro varicoso.
- THE LITTLE CINDER NASSA. Shell ovate, somewhat ventricose, brown-black, indistinctly zoned with white, longitudinally plicately ribbed, ribs crossed with transverse ridges; aperture small, interior ridged, columella callous-laminated, lip varicose.

Hab. Island of St. Thomas, West Indies.

A subventricose roughly sculptured cinder-black shell, indistinctly zoned round the middle with white.

Species 147. (Mus. Cuming.)

- NASSA RUTILANS. Nass. testă acuminato-ovată, lævigată, nitente, cinereo-olivaceo et griseo longitudinaliter variegată; spiră exsertă, ad apicem tenuipticată; columellă arcuată, parum callosă, labro crasse varicoso, lævi.
- THE SHINING NASSA. Shell acuminately ovate, smooth, shining, variegated longitudinally with ash-olive and grey; spire exserted, thinly plaited at the apex; columella arched, but little callous, lip thickly varieose, smooth.

Hab. New Zealand.

A hard, smooth, acuminated shell, variegated longitudinally with a promiscuous blending of ash-olive and grey.

Species 148. (Mus. Cuming.)

NASSA STURMII. Nass. testá ovato-conicá, subventricosá,

- albidá, fasciá cærnlescente, viltá nigro-fuscá cingulutá, longitudinaliter nodoso-plicatá, nodis obtusis : aperturá parvá, columellá arcualá, basi contortá, parum cullosá, labro simplici.
- STURM'S NASSA. Shell ovately conical, subventricose, whitish, encircled with a pale blue band and black-brown fillet, longitudinally nodosely plaited, nodules obtuse; aperture small, columella arched, twisted at the base, but little callous, lip simple.

PHILIPPI, Zeitschrift für Malae. 1848, p. 135. Hab. West Indies; Philippi.

Of a peculiar pale bluish colour, with a central fillet of black-brown.

Species 149. (Mus. Cuming.)

- Nassa Bronni. Noss, testă orată, rentricosă, crassă, atbidă, levi; spiră breci, acută, sutură impressă; aufractibus convexiuscutis, superne tumidis et obsolete nodosis; columettă excacută, culto crasso tate repanda, lubro late varicoso, antice denticulato.
- Bronn's Nassa. Shell ovate, ventricose, thick, whitish, smooth; spire short, acute, suture impressed; whorls rather convex, swollen and obsoletely nodose round the upper part; columella excavated, with a thick widely spread callosity, lip broadly varieose, denticulated in front.

Рипьтерт, Zeitschrift für Malac. 1848, p. 137. Hab. Java.

It is doubtful whether this is anything more than a variety of N. coronata.

Species 150. (Mus. Coming.)

- NASSA MELANIOIDES. Nass. testá cylindraceo-ocatá, tenniculá, 'intensè olivaceá, intus purpureo-nigrá, nitente; spirá subobtusá; anfractibus lacibus, supernè filo-marginatis, prope apicem striatis, ultimo basi sulcato; columellá subexcavatá, vix callosá, basi appresso-contortá, labro simplici.
- THE MELANIA-LIKE NASSA. Shell cylindrically ovate, rather thin, dark-olive, interior shining purple-black; spire subobtuse; whorls smooth, thread-margined round the upper part, striated near the apex, last whorl grooved at the base; columella rather excavated, but little callous, appressly twisted at the base, lip simple.

Hab. Moreton Bay, Australia; Strange.

This species, like N. obtusata, has a characteristic freshwater aspect like that of a Melania.

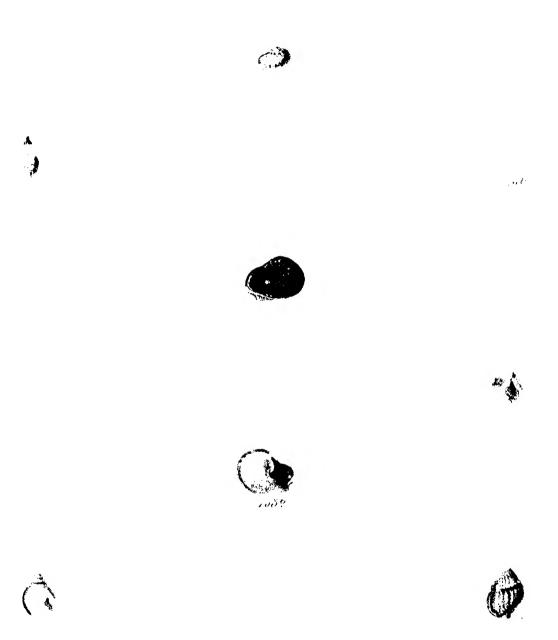


PLATE XXIII.

Species 151. (Mus. Cuming.)

NASSA PELLUCIDA. Nass. lestă semiorbiculari, plano-depressă, pellucido-albă, rufo sparsim punctulă; spiră retusissimă; apertură ovată, columellă basi contortă, lubro simplici.

THE PELLUCID NASSA. Shell semiorbicular, flatly depressed, transparent white, sparingly dotted with red; spire very blunt; aperture ovate, columella twisted at the base, lip simple.

Cyclope pellucida, Risso, Hist. nat. de l'Europe mérid, p. 271, no. 719.

Cyclope Donoviana, Risso.

Hab. Mediterranean.

This may be only a small subtransparent variety of *N. Nevitea*.

Species 152. (Mus. Cuming.)

NASSA MANGELIOIDES. Nass, lestá ocatá, solidá, dorso subgibbosá, sordidè cinereá; spirá brevi, acutá; unfractibus supernè tuberculatis, tubercutis hic illic in costas elongatis, interstitiis cancellatis; aperturá minimá, columellá subescavatá, catlo amplo incrassato latè repundo labro juncto.

THE MANGELIA-LIKE NASSA. Shell ovate, solid, rather gibbous at the back, dull ash; spire short, sharp; whorls tuberculated at the upper part, tubercles here and there prolonged into ribs, interstices cancellated; aperture very small, columella rather excavated, with a large thickened broadly spread callosity joined with the lip.

Hab. ---- P

A very characteristic species, resembling certain species of *Mangelia*, save in the wide-spread callosity which surrounds the aperture.

Species 153. (Fig. 153 and 156, Mus. Cuming.)

NASSA NERITEA. Nass. testá semiorbiculari, supra conrexá, fulvescente, purpureo-fusco minutè reticulato-lentiginosá; spirá retusissimá, infra concavo-depressá, callosá, luteá; aperturá minimá, columellá basi contortá, labro incrassato.

THE NERITOS NASSA. Shell semiorbicular, convex above, fulvous, minutely net-freckled with purple-brown; spire very blunt, concavely depressed beneath, cal-

lous, yellow; aperture very small; columella twisted at the base, lip thickened.

Buccinum Neriteum, Linnaens, Syst. Nat. (12th edit.) p. 1201.

Nassa Nevitoides, Enc. Meth.

Nana Nerita, Schumacher.

Cyclope Neritea, Risso.

Hab. Mediterranean.

This well-known and very singular species is st - without any allied forms.

Species 154. (Mus. Cuming.)

NASSA ORBICULATA. Nass. lestá orbiculatá, crassissimá, dorso subgibbosá, lævi, alicuccá; spirá brevi; aperturá minimá, columeltá excavatá, callo luteo peramplo usque ad apicem crassè repando.

The orbicular Nassa. Shell orbicular, very thick, rather gibbous at the back, smooth, olive; spire short; aperture very small, columella excavated, with a very large yellow callosity, thickly spread as far as the apex.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. ---- ?

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A truly remarkable species, one-half of the shell being enveloped by the overflowing deposit of enamel forming the callosity.

Species 155. (Mus. Cunning.)

NASSA CANCELLATA. Nass. testă ovato-conică, fuscesceute, tenni, subpettucidă, fusco hic illic variegată; spiră acută; anfractibus tongitudinaliter costată, costis flexnosis, ad saturas subnodosis, interstitiis conciune cancellatis; columettă excavată, callo subincrassato repando, labro crusse culloso.

THE CANCELLATED NASSA. Shell ovately conical, light brown, thin, semitransparent, here and there variegated with brown; spire sharp; whorls longitudinally ribbed, ribs flexuous, rather nodose at the sutures, interstices neatly cancellated; columella excavated, with a rather thick spread callosity, lip thickly callous.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Island of Musbate, Philippines (under stones); Cuming.

Allied in form to N. Mangelioides, but thinner and more ventricose.



Nassa PLAM.

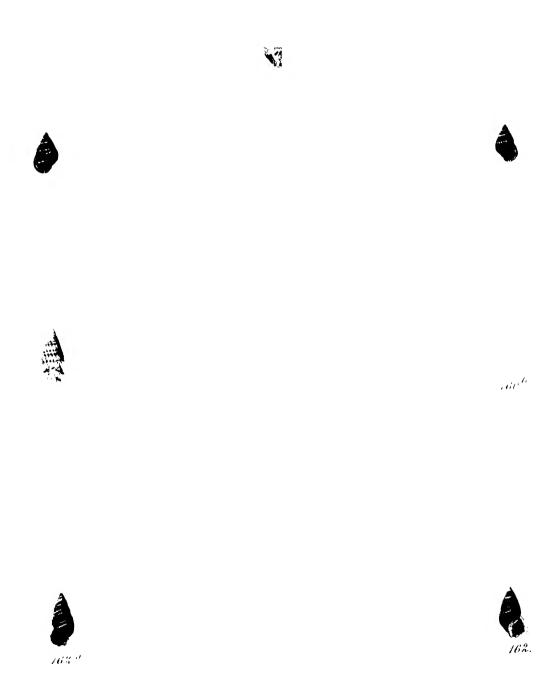


PLATE XXIV.

Species 157. (Mus. Cuming.)

NASSA GLABRATA. Nass. testă acuminată, laci, polită, tangitudinaliter obsolete striată, albidă, fasciis cinerascentibus macatisque fuscis ornată; columellă callosă, breviluminată, labro subinevassalo, margine lenni, flexuoso.

THE SMOOTH NASSA. Shell acuminated, smooth, polished, longitudinally obsoletely striated, whitish, ornamented with ash-bands and brown-spots; columella callous, short-laminated, lip rather thickened, edge thin and flexuous.

Activatina glabrata, A. Adams, Pro. Zool. Soc. March 1851.

Hub. Philippine Islands; Cuming.

A small smooth polished Terebra-like shell.

Species 158. (Mus. Cuming.)

NASSA WILSONI. Nass. lestă ovato-conică, purpurco-nigricunte, zonulă lutescente cingulată, costis longitudinatibus lirisque tenuibus transversis creberrime decussată: apertură parvă, rotundată, fauce denticulată, columettă simplici, labro varicoso.

WILSON'S NASSA. Shell ovately conic, purple-black, encircled with a narrow yellowish zone, very closely decussated with longitudinal ribs and thin transverse ridges; aperture small, rounded, interior denticulated, columella simple, lip varicose.

C. B. Adams, Panama Shells, p. 67. Hub. Panama.

A small ovate purple-black shell, closely sculptured, encircled with a narrow yellow band.

Species 159. (Mus. Cuming.)

NASSA LABIATA. Nass. testá angustè acuminatá, nitulá, cincrascente, pallidè fasciatá, longitudinatiter costatá, costis ad suturas nodulosis, transversim sutcatá; aperturá parvá, columellá fusco-laminatá, labro varicoso, margine tenui, flexuoso, supernè sinuato.

THE LIPPED NASSA. Shell narrowly acuminated, shining, light ash, faintly banded, longitudinally ribbed, ribs nodulous at the sutures, transversely grooved; aperture small, columella brown-laminated, lip varicose, edge thin, flexuous, sinuated at the upper part. Aciculina tabiata, A. Adams, Pro. Zool. Soc. March 1851. Hab. Malacca (in coarse sand at ten fathoms); Cuming.

Of the same acculated form as N. glabrata, ribbed throughout.

Species 160. (Mus. Cuming.)

NASSA VITTATA. Nass. lestă acuminată, subturrită, albidă. nitidă, vittis fuscis duabus distantibus cingulată, longitudinaliter costată, costis obtusis, inferne subecanidis . apertură parcă, columellă brevilaminată, labro varicoso.

The filleted Nassa. Shell acuminated, rather turreted, whitish, shining, encircled with two distant brown fillets, longitudinally ribbed, ribs obtuse, rather fading towards the lower part; aperture small, columella short-laminated, lip varicose.

Aciculina vittata, A. Adams, Pro. Zool. Soc. March 1851.
Hab. Island of Ticao, Philippines (in coral sand at six fathoms); Cuming.

In the filleted bands of this interesting species the spots appear only in the interstices between the ribs.

Species 161. (Mus. Cuming.)

NASSA TEREBROIDES. Nass. lestá angustè acuminată, pallidè purpurascente-roseă, obscurè fasciută, transcersim lineari-sulcată, longitudinaliter costată; apertură purvă, columellă brevilaminată, lubro varicoso, intus denticulato.

The Terebra-like Nassa. Shell narrowly acuminated, pale purple-rose, obscurely banded, transversely linearly grooved, longitudinally ribbed; aperture small, columella short-laminated, lip varieose, denticulated within.

Aciculina costata, A. Adams, Pro. Zool. Soc. March 1851.

Hab. ———?

An accoulated ribbed species of a semitransparent pinky hue, bordering on *Terebra*.

Species 162. (Mus. Cuming.)

NASSA PUPINOIDES. Nass. testá cylindraceo-ovatá, dense spiraliter striatá, ad suturas minute plicatá, fuscescente,

fascia pallida cingulata; apertura oblique expansa, columella excavata, brevilaminata, labro vix incrassato, intus denticulato.

The Pupina-Like Nassa. Shell cylindrically ovate, densely spirally striated, minutely plaited at the sutures, light brown, encircled with a pale band; aperture obliquely expanded, columella excavated, short-laminated, lip scarcely thickened, denticulated within. Icicalina striata, A. Adams, Pro. Zool. Soc. March 1851. Hab. Island of Zebu, Philippines (in sandy mud at five fathoms); Cunning.

Distinguished by a peculiar *Papina*-like aspect, arising mainly from an oblique expansion of the aperture.

Species 163. (Mus. Cuming.)

- NASSA DELICATA. Nass. testá acuminato-conicá, semipellucido-aurantiá, versus apicem paltide rosacea, transrersim sulcatá, longitudinaliter flexuoso-costatá; aperturá parvá, columellá callosá, labro crasse varicoso, varice allo.
- The delicate Nassa. Shell acuminately conical, semi-transparent orange, tinged with rose towards the apex, transversely grooved, longitudinally flexuously ribbed; aperture small, columella callous, lip thickly varieose, varix white.

Hab. Casces Bay.

Sculptured with flexuous ribs, cut into nodules by transverse linear grooves.

Vassa PLXXI.















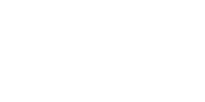














PLATE XXV.

Species 164. (Mus. Cuming.)

NASSA NANA. Nass. testă ovată, Intescente, rufo trifusciată; spiră brevinsculă, aculă; anfractibus conoexis, tongitudinaliter plicatis, plicis superne granatis, transrersim striatis; columellă culto subamplo, repundo, labro crasse varicoso, fance lirată.

THE DWARF NASSA. Shell ovate, yellowish, encircled with three reddish bands; spire rather short, sharp; whorls convex, longitudinally plaited, plaits grained at the upper part, transversely striated; columella with a rather large spread callosity, lip thickly varicose, interior ridged.

A. ADAMS, Pro. Zool. Soc. March 1851.

Itah. Island of Negros, Philippines (in coarse black sand at cleven fathoms); Cuming.

A solid red-banded shell, with a rather short spire and moderately spread callosity.

Species 165. (Mus. Cuming.)

NASSA CRENOLIRATA. Nass. testá ovalá, pallidá, lineis angustis transversis fuscis ornatá, longitudinaliter costatá, costis nodulosis, supernè nodosis; aperturá angustatá, fauce valdè liratá, columellá cum callo tenui, labro crassè varicoso.

THE CRENATED-RIDGED NASSA. Shell ovate, pale, ornamented with narrow transverse brown lines, longitudinally ribbed, ribs nodulous, knotted at the upper part; aperture narrow, interior strongly ridged, columella with a thin callosity, lip thickly varicose.

A. Adams, Pro. Zool. Soc. March 1851.

A small solid stoutly ribbed species, with very much the general aspect of a Cancellaria.

Species 166. (Mus. Cuming.)

NASSA LABECULA. Nass. testá ovato-conicá, obliquá, pallidè fuscá, anfractu ultimo nigricante tinctá; spirá breviusculá, acutá; anfractibus costatis, costis supernè luberculatis, in anfractu ultimo subevanidis; columellá callo subexpanso, labro supernè crassè calloso, fauce denlatá.

THE BLEMISHED NASSA. Shell ovately conical, oblique, light brown, last whorl stained with blackish; spire

rather-short, sharp; whorls ribbed, ribs tubercled at the upper part, somewhat fading in the last whorl; columella with a rather expanded callosity, lip thickly callous at the upper part, interior toothed.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Island of Burias, Philippines (in coral sand at six fathoms); Cuming.

The lip of this species is peculiarly thickened at its junction with the body-whorl.

Species 167. (Mus. Cuming.)

NASSA TESSELLATA. Nass. testá ovato-conicá, solidiuscula, lutescente-alhá, castaneo tessellatim fasciatá; spirá aculá; anfractibus rotundatis, longitudinaliter pticatacostatis, liris nodatis decussotis; aperturá parrá, funce denticulatá, columellá excavatá, rugoso-callosá, tabro varicoso.

The tessellated Nassa. Shell ovately conical, rather solid, yellowish-white, tessellately banded with chest-nut; spire sharp; whorls rounded, longitudinally plicately ribbed, crossed with noduled ridges; aperture small, interior denticulated, columella excavated, roughly callous, lip varicose.

Hab. ---- ?

The transverse bands of this species appear tessellated, through being omitted, so to speak, in the interstices between the ribs.

Species 168. (Mus. Cuming.)

NASSA ANNELLIFERA. Nass. testă ovalo-conică, subcentricosă, lutescente, lineis filosis fuscis fasciatim cingulată; longitudinaliter plicală, plicis superne nodosis, deinde plus minus evanidis, transcersim creberrime tenuiliratis; apertură parviusculă, rotundată, columellă excavală, callosă, labro crasse varicoso.

THE RINGED NASSA. Shell ovately conic, subventricose, yellowish, encircled with bands of brown thread-like lines; longitudinally plicated, plaits noduled at the upper part, then more or less fading, transversely very closely finely ridged; aperture rather small, rounded, columella excavated, callous, lip thickly varicose.

Hab. ---?

So closely and prominently ridged across, that the shell has the appearance of being encircled with a number of fine rings.

Species 169. (Mus. Cuming.)

NASSA COLLARIA. Nass. testă acuminato-ocată, albidă, rufescente-fasco late bifasciată, longitudinaliter costată, transcersim nodoso-lirată; apertură parră, fauce denticatată, columellă tenuilaminată, labro conspicue varicoso.

THE COLLAR NASSA. Shell acuminately ovate, whitish, broadly two-banded with reddish-brown, longitudi-

nally ribbed, transversely nodosely ridged; aperture small, interior denticulated, columella thinly laminated, lip conspicuously varicose.

GOULD, C. B. Adams, Panama Shells, p. 59. Hab. Panama.

A rough-grained acuminated red-banded shell, with a very prominent varix on the lip.

Fig. 170. (Mus. Cuming.)

A variety of N. lessellata represented above, in which the painting is darker and more banded.





























1736









PLATE XXVI.

Species 171. (Mus. Cuming.)

NASSA GENICULATA. Nass. testa parva, ovato-conica, fulva, albo variegata, fascia lata cinereo-fusca cincta, transversim striata, longitudinaliter costata, costis geniculatis; columella subcallosa, anticè bituberculata, labro extus incrassato, intus dentato-lirato.

THE KNOTTED NASSA. Shell small, ovately conic, fulvous, variegated with white, encircled with a broad ash-brown band, transversely striated, longitudinally ribbed, ribs knotted; columella rather callous, bitubercled; lip thickened outwardly, dentately ridged inwardly.

A. Adams, Pro. Zool. Soc. March 1851.

Ilab. Island of Ticao, Philippines (in sand at four fathoms); Cuming.

Rather widely ribbed, the ribs being strongly prickly knotted. The last whorl of the specimen here figured is distinguished by a dark livid-ash band.

Species 172. (Mus. Cuming.)

NASSA PUSIO. Nass. testá parvá, ovato-conicá, fulvá, fusco variegatá et maculosá, costellis planis longitudinalibus confertis ornatá; anfractu ultimo anticè sulcato; columellá cum callo nilido subexpanso tectá, labro intus sulcato, margine subreflexo.

THE YOUNG NASSA. Shell small, ovately conic, fulvous, variegated and spotted with brown, ornamented with close-set rather flat longitudinal riblets; last whorl grooved in front; columella covered with a rather spread shining callosity; lip grooved within, a little reflected at the edge.

A. Adams, Pro. Zool, Soc. March 1851.

Hab. Sorsogon, Island of Luzon, Philippines (in coarse sand, at six fathoms); Cuming.

Very closely obtusely finely ribbed, the ribs having a rather callous aspect.

Species 173. (Mus. Cuming.)

NASSA NIGELLA. Nass. testá acuminato-ovatá, transversim sulcatá, longitudinaliter granoso-liratá, intus extusque nigello-fuscá; columellá subexpansá, nitidá, labro simplici, extus marginato.

THE SWARTHY NASSA. Shell acuminately ovate, trans-

versely grooved, longitudinally granosely ribbed, swarthy brown within and without; columella rather expanded, shining, lip simple, margined without.

Hab. New Zealand.

A rather sharply acuminated species, granosely ribbed throughout, the uppermost grains being the most prominent, of a swarthy brown within and without, including the columellar enamel.

Species 174. (Mus. Cuming.)

NASSA SCABRIUSCULA. Nass. testa ovato-conica, acuminata, fusca, luteo fasciata, longitudinaliter plicata, striis elevatis asperis spiraliter cancellata; apertura rotundata; labro externo albo, anticè fusco-maculato, extus marginato, intus valdè sulcato.

The Rough Nassa. Shell ovately conical, acuminated, banded with brown-yellow, longitudinally plaited, spirally cancellated with rough raised striæ; aperture rounded; outer lip white, spotted in front with brown, margined outwardly, inwardly strongly grooved.

Powis, Pro. Zool. Soc. July 1835.

Hab. Bay of Montija, Central America (dredged from sandy mud at a depth of twelve fathoms); Cuming.

Of rather an elongated form, roughly sculptured throughout, with a small aperture, thickly margined outwardly.

Species 175. (Mus. Cuming.)

NASSA ABYSSICOLA. Nass. testa purva, ovato-conica, sordidè alba, costellis confertis longitudinalibus permultis, interstitiis concinnè clathratis, ornata; columella arcuala, mediocriter callosa; labro intus dentato-lirato, extus incrassato.

THE DEEP-DWELLING NASSA. Shell small, ovately conic, dirty white, ornamented with very numerous close-set longitudinal riblets, the interstices between which are finely latticed; columella arched, slightly callous, lip dentately ridged within, thickened without.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Loay, Island of Bohol, Philippines (dredged from clayey ground at a depth of sixty fathoms); Cuming.

A small colourless species, densely cancellated throughout, with the whorls slightly margined next the sutures.

Species 176. (Mus. Cuming.)

NASSA CINCTELIA. Nass. testá ovato-conicá, albidá, lineis fuscis cinctá, tongitudinaliter valdè plicatá, plicis distantibus, liris transversis albis, interstitiis fuscis, ornatá; columellá corrugatá, vix callosá, labro extus raricoso, intus valdè lirato.

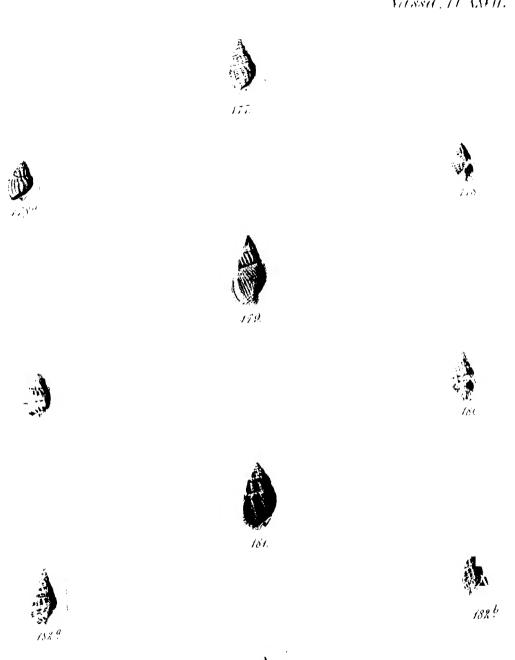
THE FINELY GIRDLED NASSA. Shell ovately conic, whitish, encircled with brownish lines, longitudinally strongly plaited, plaits distant, ornamented with white

transverse ridges, the interstices between which are brown; columella wrinkled, slightly callous, lip varicose without, strongly ridged within.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. St. Helena (in sandy mud at twenty fathoms) Cuming.

Chiefly distinguished by the deep brownish grooves between the white transverse ridges.



183.

PLATE XXVII.

Species 177. (Mus. Cuming.)

NASSA STRIATA. Nass. testá elongato-conicá, albidá, flavescente tinclá, fortiter longitudinaliter costatá, transversim densè cancellato-striatá; aperturá parciusculá, columellá subrugosá, labro varicoso.

The striated Nassa. Shell clongately conical, whitish, tinged with yellow, strongly longitudinally ribbed, transversely densely cancellately striated; aperture rather small; columella subrugose, lip varicose.

C. B. Adams, Panama Shells, Annals Lyceum Nat. Hist. New York, vol. v. p. 289.

Hab. Taboga.

Has somewhat the aspect of a discoloured N. versicolor.

Species 178. (Mus. Cuming.)

NASSA NUCLEOLUS. Nass. testá conicá, solidiusculá, alhá, basi rufo-fuscá, longitudinaliter costatá, costis subdistantibus, interstitiis transversim tenniliratis; aperturá parvá, circulari, columellá tenuiruyosá, labro densè raricoso, intus sulcato.

THE LITTLE KERNEL NASSA. Shell conical, rather solid, white, red-brown at the base, longitudinally ribbed, ribs rather distant, with the interstices transversely finely ridged; aperture small, circular, columella finely wrinkled; lip thickly varicose, grooved within.

PHILIPPI, MS. in Mus. Cuming.

 Λ small, rather solid species, distantly ribbed, with a small circular grooved aperture.

Species 179. (Mus. Cuming.)

Nassa labida. Nass. testá acuminato-ovatá, basi truncatá, pallidá, sublividá, nitente, longitudinaliter calloso-costatá, costis anfractús ultimi tenuibus, numerosis, confertis; columellá calloso-expansá, nitente, uperturá parviusculá, fauce sulcatá, labro simplici.

THE SLIPPERY NASSA. Shell acuminately ovate, truncated at the base, pale, rather livid, shining, longitudinately callously ribbed, ribs of the last whorl fine, numerous, and close-set; columella callously expanded, shining, aperture rather small, interior grooved, lip simple.

Hab. ____ 9

A very characteristic species, sculptured with a protusion of shining callous ribs, which are large and rather distant in the early whorls of the shell, but very numerous and close-set in the last whorl.

Species 180. (Mus. Cuming.)

NASSA DELICATA. Nass, testă ocato-conică, subpellucidi, albidă, fasciă angustă fuscă maculisque fuscis ornată, longitudinaliter costată, costis planulatis superne nodosis, interstitiis lineis elecutis transversis elaturatis; columellă callosă, antice tenue quadriplicată, tabro caricoso, intus fortiter tirato.

The delicate Nassa. Shell ovately conical, subpellucid, whitish, ornamented with a narrow brown band and brown spots, longitudinally ribbed, ribs rather flat, nodose at the upper part, interstices latticed with raised transverse lines; columella callous, with four fine plaits in front, lip varieose, interior strongly ridged.

A. Adams, Pro. Zool. Soc. March 1851.

Hab. Sorsogon, Island of Luzon, Philippines (in coarse sand at six fathoms); Cuming.

A short, solid, subtransparent species, sparingly blotched with brown, strongly ribbed.

Species 181. (Mus. Cuming.)

NASSA DENSIGRANATA. Nass. testă ovată, transversim lineari-sulcată, longitudinaliter dense plano-granată, albidă, fuscescente tinctă et fusco-maculată; anfractibus ad suturas plicato-nodulosis; columellă brevicontortă et callosă, labro simplici.

The close-grained Nassa. Shell ovate, transversely linearly grooved, longitudinally densely flatly grained, whitish, stained with light brown and brown blotched; whorls plicately noduled at the sutures; columella short-twisted and callous, lip simple.

Hab. Philippine Islands; Cuming.

A characteristic close-grained species, plicately noduled at the sutures, more or less stained throughout with redbrown, and blotched here and there with darker brown.

Species 182. (Mus. Cuming.)

NASSA MADERENSIS. Nass. testa acuminata, transversim

tenuisulcată, longitudinaliter costată, costis in anfractu ultimo evanidis, flavescente, albo et rufo-fusco subtiliter vittată; columellă callosă, arcuată; apertură parvă, labro simplici, subvaricoso.

THE MADEIRA NASSA. Shell acuminated, transversely finely grooved, longitudinally ribbed, ribs obtuse, fading on the last whorl, yellowish, finely filleted with white and red-brown; columella callous, arched; aperture small, lip simple and faintly varicose.

Hab. Madeira.

An acuminated species, obtusely ribbed, the ribs fading on the last whorl, of a pale yellowish colour, filleted transversely with opake-white and red-brown. Species 183. (Mus. Cuming.)

NASSA ROSACEA. Nass. testá acuminato-ovatá, transversim sulcatá, longitudinaliter flexuoso-costatá, intensè roseá, ad basin nigro-marginatá; columellá callosá; aperturá parvá, fauce sulcatá, labro varicoso, albo.

THE ROSY NASSA. Shell acuminately ovate, transversely grooved, longitudinally flexuosely ribbed, deep rose, black-edged at the base; columella callous; aperture small, grooved in the interior, lip varicose, white.

IIab. ---- ?

A deep transparent rose shell, flexuously ribbed throughout, turned up with black at the edge of the basal canal.

Nassa, Pl.XXVIII.



























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PLATE XXVIII.

Species 184. (Mus. Cuming.)

NASSA BELLULA. Nass. testa ovata, spira acuminata, acuta; anfractibus angulatis, pallidula, fascia luteola ornata, longitudinaliter plicata, transversim lirata, interstitiis concinne longitudinaliter striatis; columella rugosa, callo magno expanso tecto, labro margine rugoso calloso, intus crenulato.

THE PRETTY NASSA. Shell ovate, spire acuminated, sharp, with the whorls angled, pale, ornamented with a yellowish band, longitudinally plaited, transversely ridged, interstices neatly cancellately striated; columella rough, with a large expanded callosity, lip with a rough callous edge, crenulated within.

1. ADAMS, Pro. Zool. Soc. March 1851.

Hub. Catbalonga, Island of Samar, Philippines (under stones at low water); Cuming.

An elaborately sculptured species, callous in front, having somewhat a *Mangelia*-like aspect.

Species 185. (Mus. Cuming.)

NASSA CALLOSA. Nass. testá parcá, ovatá, spirá acutá, albá, fusco-maculatá, longitudinaliter costatá, transversim sulcatá; columellá anticè triplicatá, callo magno albo nitido expanso, labro margine incrassato, calloso, intus dentalo-lirato.

The callous Nassa. Shell small, ovate, sharp at the spire, white, spotted with brown, longitudinally ribbed, transversely grooved; columella three-plaited in front, with a large white shining expanded callosity, lip thickened and callous at the edge, dentately ridged within.

A. Adams, Pro. Zool. Soc. March 1851.

IIab. Bais, Isle of Negros, Philippines (in sandy mud at seven fathoms); Cuming.

A very small species, distinguished by a largely expanded shining callosity in front.

Species 186. (Mus. Cuming.)

NASSA NOVÆ-ZELANDIÆ. Nass. testá acuminato-conicá, nigro fuscoque marmoratá; spirá acutá, suturá impressá; anfractibus supernè subangulatis, transversim lineari-sulcatis, longitudinaliter fortiler grano-costatis; columellá contortá, albá, labro tenui, varicoso.

The New Zealand Nassa. Shell acuminately conical, mottled black and brown; spire sharp, with the suture impressed; whorls slightly angled at the upper part, transversely linearly grooved, longitudinally strongly grain-ribbed; columella twisted, white, lip thin, varicose.

Hab. New Zealand.

Of the same typical character as N. labida, from the same locality, but more prominently grained and more angulated about the suture.

Species 187. (Mus. Cuming.)

NASSA AMBIGUA. Nass. testá acuminato-turritá, futerscente, rufo sparsim maculatá; spirá acutá, subexsertá; anfractibus rotundatis, longitudinaliter prominentè costatis, liris tenuibus cingulatis; columellá tenuè corrugatá; aperturá parvá, circulari, labro varicoso, albo.

The doubtful Nassa. Shell acuminately turreted, light fulvous, sparingly blotched with red; spire sharp, rather exserted; whorls rounded, longitudinally prominently ribbed, encircled with five ridges; columella finely wrinkled; aperture small, circular, lip varicose, white.

Buccinum ambiguum, Montagu, Test. Brit. pl. 9. f. 7. Hab. Mediterranean and English Channel.

A delicate transparent fulvous species, spotted here and there, but chiefly near the suture, with brown-red, prominently decussated with longitudinal ribs and cross ridges.

Species 188. (Mus. Cuming.)

NASSA SANCTÆ HELENÆ. Nass. lestå ovato-conicå, subturritå, albidå, rufo-variegatå; spirå productå; anfractibus rotundatis, longitudinaliter costatis, costis distantibus subnodosis, anfractu ultimo anticè transversim sulcato; columellá lævi, calloso, anticè uniplicatå. labro intus lirato.

THE SAINT HELENA NASSA. Shell ovately conical, subturreted, white, variegated with red; spire produced; whorls rounded, longitudinally ribbed, ribs distant, rather nodose, last whorl transversely grooved in front; columella smooth, callous, one-plaited in front, lip ridged within.

A. ADAMS, Pro. Zool. Soc. March 1851.

Hab. St. Helena (in sandy mud at twenty fathoms); Curning.

Allied to the European form of Nassa, represented by the preceding species.

Species 189. (Mus. Cuming.)

NASSA CORTICATA. Nass. testa ovato-conică, spira productă, epidermide viridi-fuscă obtectă; anfractibus superne nodosis, ultimo antice cingulă subnodosă ornato, postice nodulis coronato; columellă vix callosă, antice biplicată, labro extus marginato, intus lirato. THE BARK-COVERED NASSA. Shell ovately conic, produced at the spire, covered with a greenish-brown epidermis; whorls nodose at the upper part, last whorl ornamented in front with a subnodose belt, posteriorly coronated with nodules; columella but little callous, two-plaited in front, lip margined outwardly, ridged within.

A. Adams, Pro. Zool. Soc. March 1851. Hab. New Zealand.

A distinct typical form of Nassa, covered with a thick dark olivaceous epidermis.



Nassa Pl. XIII.

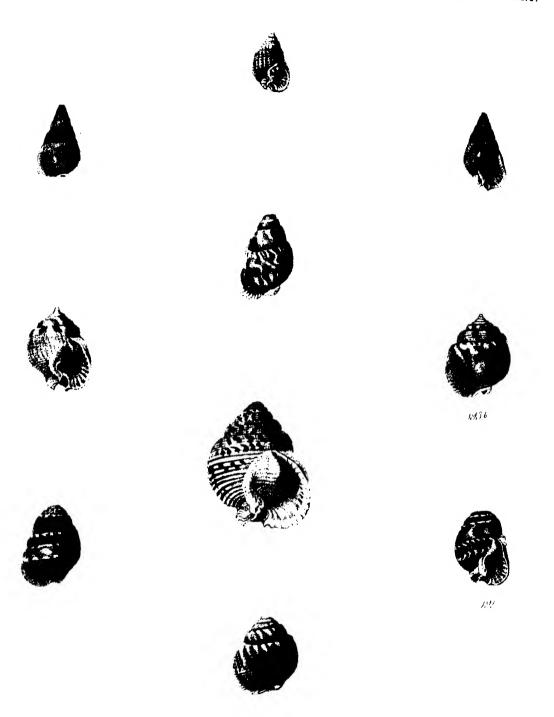


PLATE XXIX.

Species 190. (Mus. Coming.)

NASSA RINGENS. Nass. testá ovatá, fusco-aurantiá; spirá breviusculá, suturá angulato-impressá, basi peculiariter contortá et contractá; anfractibus convexis, undique nodoso-reticulatá; columellá arcuatá, verrucosá; aperturá parvá, fauce verrucoso-liratá, labro simplici, superud appresso.

THE GRINNING NASSA. Shell ovate, brownish-orange; spire rather short, angularly impressed at the sutures, peculiarly twisted and contracted at the base; whorls convex, nodosely reticulated throughout; columella arched, warty; aperture small, interior wart-ridged, lip simple, appressed at the upper part.

Desmonlea ringens, A. Adams, MS. in Mus. Cuming. Hab. ----?

The species represented in this Plate constitute Mr. Gray's genus *Desmoulea*, and form a very natural and interesting group.

Species 191. (Mus. Cuming.)

NASSA PYRAMIDALIS. Nass. testá ovato-conicá, pallide aurantiá; spirá acuminalá, apice obtuso, violascente; longitudinaliter evanulò plicalá, transversim sulcatá; columellá fuscá, subcallosá, simplici, labro extus marginato, intus tirato.

THE PYRAMIDAL NASSA. Shell ovately conical, pale orange; spire acuminated, apex obtuse, violet-tinged; longitudinally faintly plaited, transversely grooved; columella brown, rather callous, simple, lip margined outwardly, ridged within.

Desmoulea pyramidatis, A. Adams, Pro. Zool. Soc. March 1851.

Hab. ---- ?

The typical character of the spire in this group is to be short and obtuse, but in this species the spire is acuminated.

Species 192. (Mus. Cuming.)

NASSA JAPONICA. Nass. testá ovatá, lævi, nitidá, anticè transversim sulcatá, fulvescente, maculis lineisque transversis fuscis ornatá, albo variegatá; columellá callosá, anticè tuberculis tribus instructá, labro extus incrassato, intus lirato.

THE JAPAN NASSA. Shell ovate, smooth, shining, transversely grooved in front, light fulvous, ornamented with brown transverse spots and lines, variegated with white; columella callous, furnished with three tubercles in front, lip thickened without, ridged within.

Desmoulea Japonica, A. Adams, Pro. Zool. Soc. March 1851.

Hab. Japan; Dr. Siebold.

Less acuminated than the preceding species, though partaking of its form. There is generally a small wartlike callosity on the body-whorl at the upper part of the aperture.

Species 193. (Mus. Cuming.)

NASSA PINGUIS. Nass, testá globosá, abbreviatá, ventricosá, lutescente, albo variegalá, epidermide fuscá citlosá teclá; spirá brevi, ad suturam impressá, apice mucronato; aufractibus gibbosis, transversim striatis; culumellá lavi, callosá, anticè tuberculo unico, uniplicatá,
labro intus lirato.

THE PLUMP NASSA. Shell globose, short, ventricose, variegated with yellow and white, covered with a brown hairy epidermis; spire short, impressed at the suture, apex sharp-pointed; whorls gibbous, transversely striated; columella smooth, callous, with a single tubercle, one-plaited in front, lip ridged within.

Desmoulea pinguis, A. Adams, Pro. Zool. Soc. March 1851. Hab. Senegal.

A peculiarly globose species, with an impressed suture and raised pointed apex.

Species 194. (Mus. Cuming.)

NASSA ABBREVIATA. Nass. testá globosá, ventricosá, albescente vel castaneá, albo et fulvo fusciatá, transversim liratá; spirá brevi; suturá canaliculatá; aperturá albá, subrotundatá, labro columellari tenui, expanso, arcuato et rugoso, labro externo simplici, intus fortiler lirato.

The shortened Nassa. Shell globose, ventricose, whitish or chestnut, banded with white and fulvous, transversely ridged; spire short; suture channelled; aperture white, nearly round, columellar lip thin, ex-

panded, arched, and rugose, outer lip simple, strongly ridged within.

Buccinum abbreviatum, Wood, Index Test. Bucc. No. 12. Chemnitz, Conch. Cab. pl. 153. f. 1464 and 1466. Desmoulea abbreviata, Gray.

Hab. Cape of Good Hope.

This singular species partakes of the character of Cassis, and is the most abnormal form of the genus.

Species 195. (Mns. Cuming.)

NASSA RETUSA. Nass. testá abbreviato-ovalá, transversim minutissimè striatá, luteo-rubente; spirá brevi, turgidá, apice retusă; apertură albá, înferne dilatată, labro intus striato.

THE BLUNT NASSA. Shell abbreviately ovate, transversely very minutely striated, yellow-red; spire short, swollen, blunt at the apex; aperture white, dilated at the upper part, lip striated within.

Buccinum retusum, Lamarck, Anim. sans vert. (Deshayes' edit.) vol. x. p. 168.

Nassa retusa, Deshayes.

Desmoulea retusa, Gray.

Hab. West Africa.

The suture of this species is generally white, dotted with red-brown, and the shell is encircled with two or more very delicate narrow brown and white fillets.

Species 196. (Mus. Cuming.)

NASSA PONDEROSA. Nass. testá globosá, solidá, lævi : spirá obtusá, apice violaceá; anfractibus supernè glibasis. albá, fulvo-rufescente variegatá, transversim striatá; columellá callosá, tenuè corrugatá, labro calloso-incrassato, intus liralo.

THE HEAVY NASSA: Shell globose, solid, smooth; spire obtuse, violet at the apex; whorls gibbons at the upper part, white, variegated with fulvous-red, transversely striated; columella callous, finely wrinkled, lip callously thickened, ridged within.

Desmoulea crassa, A. Adams, Pro. Zool. Soc. March 1851. Hab. Japan.

A very solid globose species, encircled with numerous hair lines of red-brown, besides being stained and variegated with the same colour.

	Plate.	Species.		Plate.	Species
"hbbreviata (Buccinum), Wood	XXIX.	194	denticulata, A. Adams	EX.	55
abyssicola, A. Adams	XXVI.	175	dentifera, Powis	XIX.	130
albescens (Bucc.), Dunker	XV.	100	dispar, A. Adams	VII.	45
albipunctata, Récre	XXI.	144	distorta, A. Adams	V.	32
algida, Reeve	XXIJ.	145	dorsuosa, A. Adams	XXI.	141
ambigua (Bucc.). Montagu	XXVIII.	187	echinata, A. Adams	XX.	131
angulifera, A. Adams	V1.	34	elegans (Bucc.), Kiener	11.	10
annellifera, Reeve	XXV.	168	exilis, Powis	XV.	101
Antillarum (Bucc.), Phil	XII.	77	fasciata (Bucc.), Quoy	·V1.	40
arcularia, Lamarck	IV.	25	festiva, Powis	XVIII.	117
badia, A. Adams	XIX.	124	fida, Recoc	XIII.	88
bellula, A. Adams	XXVIII.	184	filosa, Gray	VI.	35
bimaculosa, A. Adams	X.	61	fissilabris, A. Adams	XXI.	138
Bronni (Bucc.), Philippi	XXII.	149	foveolata, Dunker	XIII.	83
ewlata, A. Adams	XX.	133	fuscata, A. Adams	XIX.	127
eallosa, A. Adams	XXVIII.	185	gaudiosa, Hinds	VIII.	48
callospira, A. Adams	х.	-66	Gayi (Bucc.), Kiener	XIII.	. 87
canaliculara, Lamarck	HI.	• 18	gemnulata, Lamarek	V.	29
cancellata, A. Adams	XXIII.	155	gemmulifera, A. Adams	XX.	132
candens, Hinds	VI.	39	geniculata, A. Adams	XXVI.	171
cerotina, A. Adams	XVI.	107	gibba, Roïssy	1.	6
cinctella, A. Adams	XXVI.	176	gibbosula (Bucc.), Linn	Χ.	64
cinisculus, Reeve	XXII.	146	glabrata (Acioulina), A. Ad	XXIV.	157
cinnamomea, A: Adams	XIX.	126	glans (Buco.), Linn	J.	5
circumcincta, A. Adams	XI.	71	glauca, C. B. Adams	XXI.	139
clathratula, A. Adams	XIX.	125	globosa (Bucc.), Quoy	X.,	62
collaria, Gould	XXV.	169	granifera (Bucc.), Kiener	XI.	72
complanata, Powis	XVII.	1.11	Gruneni (Bucc.), Dunker	XII.	75
compta, A. Adams	XVI.	106	birta (Bucc.), Kiener	I.	1
concinna, Powis	XIII.	82	hispida, A. Adams		37
coronata, Lamarck	III.	20	horrida-(Bucc.), Dunker	X1.	69
coronula, A. Adams	XV.	99	incrassata (Tritonium), Müller	XVII.	114
corticata, A. Adams	XXVIII.	189	Isabellei, D'Orbigny	VII.	47
costata, A. Adams	XXI	142	Japonica (Desmoulea), A. Ad	XXIX.	192
costellifera, A. Adams	IX.	58	Docula, A. Adams	XXV.	166
crassa (Bucc.), Koch	X.	67	labiata (Aciculina), A. A.Jams	XXIV.	159
cremata, Hinds	IV.	26	labida, Reeve	XXVII.	179
crenellifera, A. Adams	VIII.	49	lachrymosa, Reeve.	VIII.	52
crenolirata, A. Adams	XXV.	165	lentiginosa, A. Adams	III.	15
crenulata (Bucc.), Brug	·	. 2	leptospira, A. Adams	XIII.	84 •
Cumingii, A. Adams	v.	80	lirella, Beck	XIV.	95
dealbata, A. Adams	XVI.	105	luctuosa, A. Adams	XVI.	109
	XVIII.	105 121	luteostoma (Bucc.), Kiener	XVI. X.	63
decussata (Bucc.), Kiener	XXVII.	180	maculata (Aciculina), A. Ad	XVI.	103
delicata, A. Adams		181	-	XXVII.	182
densigranata, A. Adams	XXVIL	101	Maderensis, Reeve	A.A. V LIL.	1 () %

Mangalones, Ross	XXIII.	Species. 152	retecosa, A. Adams	Plate. V.	8pecies. 28
margaritifera (Bucc.), Dunker	IX.	59	reticulata (Bucc.), Linn	IX.	57
marginulata, Lamarck	VП.	· 43	retusa (Bucc.), Lamarck	XX1X.	195
marmorea, A. Adams	I.	7	ringens (Desmoulea), A. Adams.	XXIX.	190
Melanoides, Reeve	XXII.	150	rosacca, Reeve	XXVII.	183
micans, A. Adams	XXI.	140	rufula (Bucc.), Kiencr	11.	14
Miga (Bucc.), Brug	XIII.	86	rutilans, Reeve	XXII.	147
mitralis, A. Adams	XIX.	128	Sanctæ-Helenæ, A. Adams	XXVIII.	188
monile (Bucc.), Kiener	V1.	38	scabriuscula, Pomis	XXVI.	174
mucronata, A. Adams'	II.	8	scalaris, A. Adams	IV.	21
multicostata, A. Adams	XX.	136	semigranosa (Bucc.), Dunker	XVII.	116
muricata (Bucc.), Quoy	X1.	73	seminodosa, A. Adams	I.	3
mutabilis (Bucc.), Linin	I.	6	semiplicata, A. Adams	X11.	78
myristica, Hinds	XVIII.	119	sertula, A. Adams		89
nana, A. Adams	XXV.	164	Siquijorensis, A. Adams		5 3
Neritea (Bucc.), Linn	XXIII.	153	sinusigera, A. Adams	XVII.	113
nigella, Reeve	XXVI.	173	sordida, A. Adams	XVII.	96
nivea, A. Adams	XVIII.	122	speciosa, A. Adams	111.	16
nodata, Hinds	VII.	41	spirata, A. Adams	П.	13
nodicostata, A. Adams	XV.	97	stigmaria, A. Adams	VII.	42
nodifera, Powis	IV.	23	Stimpsoniana (Bucc.), C. B. Ad.	XXI.	143
Novæ-Zelandiæ, Reeve	XXVIII		stolida, A. Adams	V.	31
nucleolus, Philippi	XXVII.	178	striata, C. B. Adams	XXVII.	177
obsoleta, Say	XII.	79	Sturmii (Bucc.), Philippi	XXII.	148
obtusata, A. Adams	XX.	135	sulcifera, A. Adams	1V.	24
olivagea (Bucc.), Brug.	III.	19	succineta, A. Adams	XII.	80
orbiculata, A. Adams	XXIII.	154	suturalis, Lamarck	I.	4
ornata (Bucc.), Kiener	V.	33	tegula, Recve	XV.	98
pallida, Powis	IX.	60	tenella, Reeve	XXIV.	163
pallidula, A. Adams	XVI.	108	Terebroides, Reeve	XXIV.	163
papillosa (Bucc.), Linn	II.	103	teretiuscula, A. Adams	XVI.	104
pauperata, Lamarck	v.	27	tessellata, Reeve.	XXV.	167
pellucida (Cyclops), Risso	XXIII.	151	Thersites (Bucc.), Brug	X.	65
picta, Dunker,	II.	9	tiarula (Bucc.), Kiener	XIV.	92
pinguis (Desmoulea), A. Adams	XXIX.	193	Tritoniformis (Bucc.), Kiener	XVIII.	120
planicostatu, A. Adams	XIL	76	unicolorata (Bucc.), Kiener	III.	17
plicatella, A. Adams	IX.		difficulties (Dictor), Nichel		
polygonata, Lamarck	XVIII.		window A. Albany	100	
pouderosa, Reeve	ALIX.	186			
pulchella, A. Adams	XIV.	on I	Village Village to	4	Fres.
pulla (Bucc.), Linn	IV.			PART STATE	
punctata, A. Adams	VIII				A. C.
Pupinoides, Reeve	XXIV	144	riber, says a second	1	
pusio, A. Adams	XXVI.	172	vittata (Aciculina), A. Adams		160
pyramidalis (Desmoulea), A. Ad	XXIX.	191	Wilsoni, C. B. Adams	XXIV.	158
ravida, A. Adams	XI.	68	zonalis, A. Adams	XIV.	93
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ERRATUM.

Plate XXIV. Sp. 163. For N. delicata, read N. tenella.

